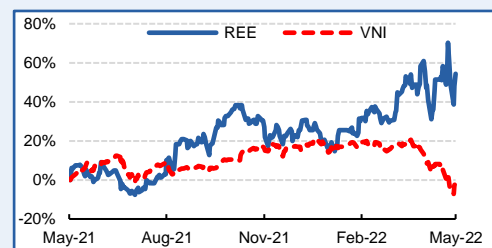


Refrigeration Electrical Engineering (REE) [OUTPERFORM +14.5%] Update Report

Industry:	Utilities		2021	2022F	2023F	2024F
Report Date:	May 20, 2022	Rev Y/Y	3.0%	60.4%	10.6%	14.0%
Current Price:	VND76,500	Rpt EPS Y/Y	14.0%	30.6%	8.4%	20.8%
Target Price:	VND86,000	NPAT-MI (VND bn)	1,855	2,423	2,626	3,173
Last Target Price*	VND73,900	EBITDA Y/Y	76.2%	60.9%	14.5%	19.4%
Upside to TP:	+12.4%	EV/EBITDA	13.0x	8.1x	7.1x	5.9x
Dividend Yield:	2.1%	P/B	1.8x	1.5x	1.4x	1.2x
TSR:	+14.5%	Rpt P/E	14.7x	11.3x	10.4x	8.6x

Market Cap:	USD940mn		<u>REE</u>	<u>VNI</u>
Foreign Room:	USD0	P/E (ttm)	11.2x	13.6x
ADTV30D:	USD1.9mn	P/B (curr)	2.0x	2.1x
State Ownership:	0%	Net D/E	52.7%	N/A
Outstanding Shares:	309 mn	ROE	19.0%	15.8%
Fully Diluted Shares:	357 mn	ROA	8.2%	2.6%
3-year PEG:	0.6	(*) Adjust for 15% stock dividend		



Company Overview:

REE is a holding company with three main business lines: power (~1,000 MW and nearly half of its total earnings), mechanical and engineering installation (M&E) and office leasing. REE is a leading M&E player and possesses 150,000 sqm of office leasing space. Other segments include water & real estate.

Duc Le
Analyst
duc.lephuoc@vcsc.com.vn
+84 28 3914 3588 ext. 196

Duong Dinh
Senior Manager
duong.dinh@vcsc.com.vn
+848 3914 3588 ext. 140

Hydropower benefits from strong CGM prices, volume

- We raise our target price (TP) for REE by 16% to VND86,000/share and maintain OUTPERFORM rating. We view REE as a leading player in Vietnam's green energy sector due to its profitable projects that are driven by its cost control and low financing costs.
- Our increased TP is due to a 20% higher valuation for the power segment (especially hydropower) and the positive impact of rolling our TP to mid-2023. We raise our 2022-2026 aggregate earnings forecast by 7% as we believe REE's hydropower portfolio will benefit from potentially high competitive generation market (CGM) prices in the forecast period (due to high gas & coal prices).
- We raise our 2022 NPAT forecast by 16% as we increase REE's power earnings by 34% due an upward revision to our earnings forecast for the hydropower portfolio outweighing a downward revision in our earnings forecast for PPC (see [our PPC Update Report](#), dated April 28, 2022).
- We forecast 2022 NPAT to grow 30% YoY as it will be driven by the hydropower segment (+23% YoY), contributions from three new wind power projects that came online in late 2021, and 162% YoY and 12% YoY NPAT growth for the M&E and office leasing segments, respectively.
- We forecast a 17% EPS CAGR for 2021-2026F that is driven by contributions from 500 MW of wind power capacity, 473 MWp of rooftop solar capacity and 500 MW of hydropower capacity as well as the commercial operation of the Etown 6 building in late 2023F.
- We view REE's valuation as attractive at a 2022F PER of 11.3x, implying a PEG of 0.6 on a 2021-2026 EPS CAGR.
- **Upside risk:** Faster-than-expected wind and hydropower M&A; new capacity included in Power Development Master Plan VIII. **Downside risk:** Lower-than-expected M&E profit.

We increase our aggregate hydropower earnings forecast by 20% for 2022-2026, which is mainly due to our higher CGM price assumption. We believe that hydropower plants will benefit the most from the potential for high CGM prices in our forecast period due to high gas and coal prices. In 4M 2022, the average CGM price surged 44% YoY to VND1,590/kWh. We forecast an average CGM price of VND1,280/kWh (+28% YoY) for 2022 and higher prices in future years (see pages 6-7). We raise our 2022 volume assumptions for most of REE's hydropower plants. The weather forecast illustrated in **Figure 11** (as of April 2022) predicts that the probability of La Niña (heavy rainfall in Vietnam) is 50%-80% in April - August 2022 vs 20%-50% forecast as of December 2021.

VSH's Upper Kon Tum hydropower plant's new price was approved by Vietnam Electricity Group's (EVN) CEO and is waiting for approval from EVN's board of directors. We maintain our expectation that Upper Kon Tum can successfully raise its power purchase agreement (PPA) price to VND1,308/kWh in 2022F. Moreover, we double our 2022 NPAT forecast for VSH to VND769bn due to higher-than-expected volume.

Q1 2022 recap: Hydropower drives earnings growth

Figure 1: Q1 2022 result

VND bn	Q1 2021	Q1 2022	YoY	as % of previous 2022F	VCSC's comments on Q1 2022 results
Revenue	1,183	2,045	73%	23%	
M&E	566	349	-38%	9%	
Office leasing & real estate	245	251	2%	25%	
Power	372	1,439	287%	46%	
Water	0	6	N/A	N/A	
Reported NPAT-MI	416	693	67%	33%	* REE announced impressive Q1 2022 results with NPAT-MI surging 67% YoY thanks to a jump in earnings from hydropower plants — especially Vinh Son Song Ninh Hydropower (HOSE: VSH) as REE consolidated VSH in Q2 2021 — and additional earnings contributions from new wind plants that came into operation in Q4 2021.
M&E	35	13	-63%	5%	* The M&E segment remained weak in Q1 2022. REE's M&E NPAT-MI plunged 63% YoY in Q1 2022 as M&E projects were still under construction.
Office leasing & real estate	119	134	13%	23%	
Power	215	477	122%	50%	* Power NPAT-MI more than doubled vs Q1 2021 as strong earnings from the hydropower portfolio outweighed weak earnings from PPC. Earnings from REE's hydropower portfolio amounted to VND343bn (USD21mn; +183% YoY) thanks to sufficient rainfall for hydropower plants as well as strong CGM prices. * REE's coal-fired power earnings were low due to a plunge PPC's earnings that was driven by lower dividend income and no more reversal provision for financial investments in Quang Ninh Thermal Power JSC and EVNFinance JSC. Furthermore, rooftop solar earnings declined 15% YoY as REE recorded full depreciation expenses for projects that it developed in 2021.
Water	62	81	30%	29%	
Other	-15	-11	-24%	N/A	

Source: REE, VCSC

2022F: Strong earnings recovery, growth across all segments

Figure 2: 2022F forecast

VND bn	2021	2022F	YoY	New vs old 2022F	VCSC's comments on (1) YoY growth (2) Changes in 2022F forecast
Revenue	5,810	9,317	60%	6%	(1) Due to consolidation of VSH from Q2 2021. (2) Due to higher forecast revenue from hydropower segment.
M&E	1,816	3,867	113%	0%	
Office leasing & real estate	939	991	6%	0%	
Power	3,055	4,459	46%	12%	
NPAT-MI	1,855	2,423	31%	16%	(2) We raise our 2022F forecast by 16% mainly due to our higher earnings forecast for the power segment.
M&E	98	257	162%	0%	(1) 2022F M&E revenue and earnings will benefit from the recognition of projects that were delayed in 2021 and new contracts signed in 2021.
Office leasing	461	517	12%	0%	(1) We expect the office leasing segment to increase from a low base in 2021 — especially in Q3 2021 when the company lowered rents to support tenants.
Real estate	169	70	-58%	0%	(1) 2021 was high base as REE recorded a one-off gain from divestment in real estate company VIID.
Power	872	1,282	47%	34%	(1) Mainly driven by: <ul style="list-style-type: none"> - The full-year operation of the Tra Vinh (48 MW), Phu Lac 2 (26 MW) and Loi Hai 2 (30 MW) wind power projects, which should contribute ~VND202bn (USD9mn) or ~8% of REE's 2022F NPAT-MI. - VSH successfully negotiating a higher PPA price at the Upper Kon Tum hydropower plant, which should materially lift VSH's standalone NPAT to VND769bn (USD33mn) vs VND301bn (USD13mn) in 2021. - REE installing 70 MWp of new rooftop capacity in 2022F to raise its total capacity to 175 MWp. (2) We raise our 2022 earnings forecast for the power segment by 34% because our higher earnings forecast for the hydropower portfolio outweighs our earnings forecast cut for PPC. <ul style="list-style-type: none"> - We increase our earnings forecast for the hydropower portfolio (mainly from VSH) to VND975bn (USD42mn) thanks to our higher CGM price and volume assumptions in 2022. - We lower shared profits from PPC by 20% (VND17bn) as we now expect the Pha Lai 2 plant to fully return online in mid-2023 vs Q3 2022 as previously.
Water	274	277	1%	0%	(1) Projected to recover after tariff cut in 2021.
Others	-19	20	N/A	49%	(2) thanks to higher interest income

Source: REE, VCSC

2021-2026F forecast summary

We forecast an NPAT-MI CAGR of 17% in 2021-2026F that is mainly driven by:

- Contributions from the Tra Vinh (48 MW), Phu Lac 2 (26 MW) and Loi Hai 2 (30 MW) wind power projects that came online in October 2021 and an additional 100 MW p.a. of wind power capacity coming online in 2023-2026F, bringing REE's total wind capacity to 500 MW by 2026F.
- Our expectation for REE Solar Energy to bring ~70-100 MWp p.a. of rooftop solar power capacity online in 2022-2025, lifting its total rooftop solar capacity to 473 MWp by 2025F.
- Profit contribution from Upper Kon Tum hydropower starting from 2021. We also believe REE will be able to finish its PPA negotiation with EVN and get a price of VND1,308/kWh beginning in 2022F.
- A full-year contribution of Etown 6 in 2024F that would increase REE's office leasing earnings to VND715bn (USD31mn) — ~55% higher vs 2021.
- Other items, mainly including net interest income/expenses at the holdco level that are forecast to jump from an expense of VND20bn (USD1mn) in 2021 to income of VND274bn (USD12mn) in 2026F thanks to a robust cash dividend from REE's power portfolio.

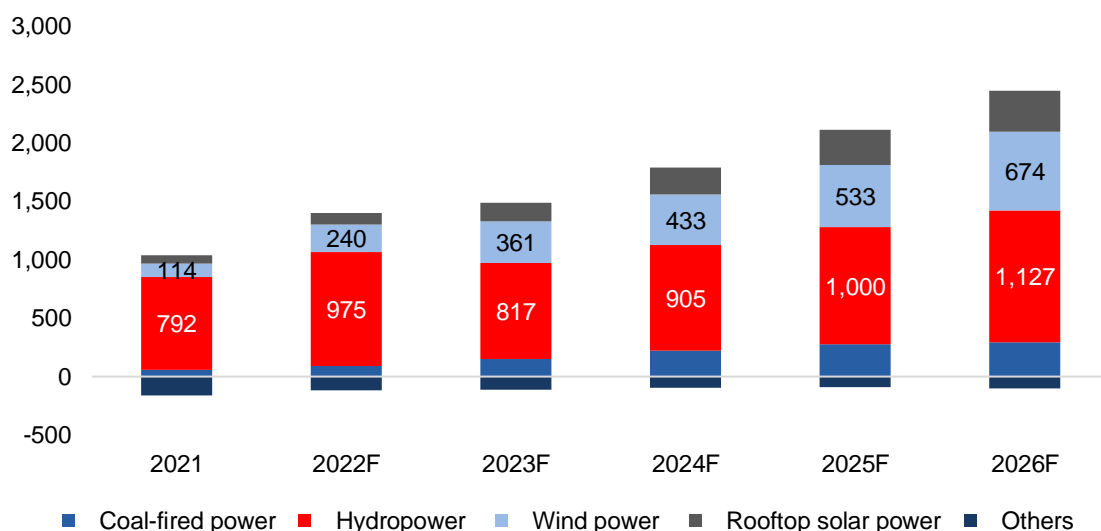
We revise up our 2022-2026F aggregate earnings forecast for REE by 7% as we increase our hydropower earnings forecast by 20% over forecast period.

Figure 3: Summary of VCSC's 2022-2026 forecasts for REE

VND bn	2022F	2023F	2024F	2025F	2026F
NPAT-MI (new)	2,423	2,626	3,173	3,642	4,129
M&E	257	304	338	376	418
Office leasing	517	562	715	749	784
Real estate	70	0	0	0	0
Power	1,282	1,374	1,696	2,023	2,342
Water	277	289	300	308	311
Others	20	97	124	185	274
NPAT-MI (old)	2,094	2,627	3,034	3,384	3,757
<i>Change (%)</i>	<i>15.7%</i>	<i>0.0%</i>	<i>4.6%</i>	<i>7.6%</i>	<i>9.9%</i>

Source: REE, VCSC forecast

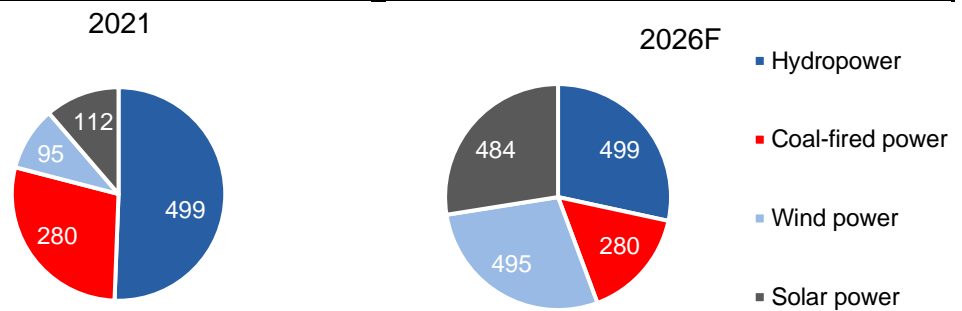
Figure 4: Summary of VCSC's 2021-2026 NPAT-MI forecasts for REE's power segment (VND bn)



Source: REE, VCSC

Power Segment

Figure 5: Breakdown of REE's power capacity (MW) by type; adjusted for ownership



Source: REE, VCSC

As of December 2021, we estimate that REE had a total 987 MW of power generation capacity (adjusted for REE's ownership) from a wide range of hydropower, wind power, rooftop solar power and coal-fired thermal power projects. Per our understanding, REE's strategy for this segment is to ramp up its green energy portfolio and reduce exposure to coal-fired power generation. The company successfully divested the Quang Ninh coal-fired power plant (QTP) in 2021.

We maintain our forecast for 400 MW of wind power to be added from 2023F

In Q1 2022, wind power NPAT surged 62% YoY to VND34bn (USD1.5mn) thanks to additional earnings contributions from new wind plants (Tra Vinh V1-3, Phu Lac 2 and Loi Hai 2) that came online in October 2021. Q1 2022 NPAT-MI completed 15% of our full-year forecast; however, we expect earnings from wind plants will accelerate in future quarters thanks to higher wind speeds in Q3 and Q4. As such, we maintain our wind power earnings forecast for 2022.

We maintain our forecast for an additional 100 MW p.a. of wind power projects in 2023-2026F in our model with our assumption for a feed-in-tariff (FIT) of 6.81 US cents/kWh — 20% lower than the previous FIT. In 2026F, we forecast these expansion projects with a total capacity of 400 MW will contribute VND358bn (USD16mn) p.a. or 10% to REE's NPAT-MI.

Figure 6: VCSC's earnings forecasts for REE's wind power in 2022-2026F

VND bn	2022F	2023F	2024F	2025F	2026F
Capacity (MW, adjusted for ownership)	95	195	295	395	495
Revenue	811	1,339	1,822	2,304	2,823
VCSC's forecast for contribution to REE's consolidated NPAT-MI	239	361	433	533	674
In which, earnings contribution from 400 MW of new capacity		71	148	235	358

Source: REE, VCSC

Figure 7: REE's guidance for three wind power projects that came online in late 2021

	Tra Vinh	Phu Lac 2	Loi Hai 2
Capacity (MW)	48	25	29
Annual power production (million kWh)	158	70	100
Feed-in tariff (US cents/kWh)	9.8	8.5	8.5
VCSC's forecast for contribution to REE's consolidated NPAT-MI (VND bn)	113	35	55

Source: REE, VCSC

Rooftop solar power capacity to jump post COVID-19

In Q1 2022, REE developed 15 MWp of rooftop solar power capacity (+3x YoY) — in line with our expectation. Therefore, we maintain our assumption that REE can install 70 MWp of new rooftop solar capacity in 2022F as the pace of new investment should accelerate as the pandemic fades. We expect that REE's total rooftop solar capacity will reach 473 MWp by YE2026.

Figure 8: Summary of 2022-2026 forecasts for rooftop solar capacity

VND bn	2022F	2023F	2024F	2025F	2026F
Year-end capacity (MWp)	173	273	373	473	473
Sales volume (million kWh)	181	292	424	555	621
Contribution to REE's NPAT-MI (VND bn)	96	156	230	304	350

Source: REE, VCSC compilations

VSH's profit to double in 2022

In Q1 2022, VSH delivered NPAT of VND403bn, quadrupling from VND101bn in Q1 2021. This surge was mainly due increased volume as a result of high rainfall and the contribution of the newly-operational Upper Kon Tum hydropower plant in April 2021. As such, we revise up our 2022 NPAT forecast for VSH by 114% due to higher-than-expected volume, strong CGM prices and slightly lower depreciation expenses. VSH's capex for Upper Kon Tum capex was VND9.4tn — lower than our previous assumption of VND10tn.

We also raise our earnings forecasts for 2023-2026 by 13% on average, which is due to our higher CGM price assumption.

According to VSH and REE, Upper Kon Tum's new PPA price was approved by EVN's CEO and is waiting for approval from EVN's board of directors.

We maintain our expectation that Upper Kon Tum can successfully raise its PPA price to VND1,308/kWh in 2022F. Our forecast is based on REE's target to negotiate for a base PPA price of VND1,090/kWh. In addition, Upper Kon Tum will ask for a price multiplier (profile ratio) of ~1.2x for the first 10 years of operation to create sufficient profit in order to ensure interest and principal debt repayment. After these 10 years, a penalty multiplier (less than 1.0x) will be applied to Upper Kon Tum's base PPA price to ensure that its project IRR would be the same as in a scenario in which the base PPA price is applied for the full lifecycle of the project.

Figure 9: Summary of forecasts for VSH

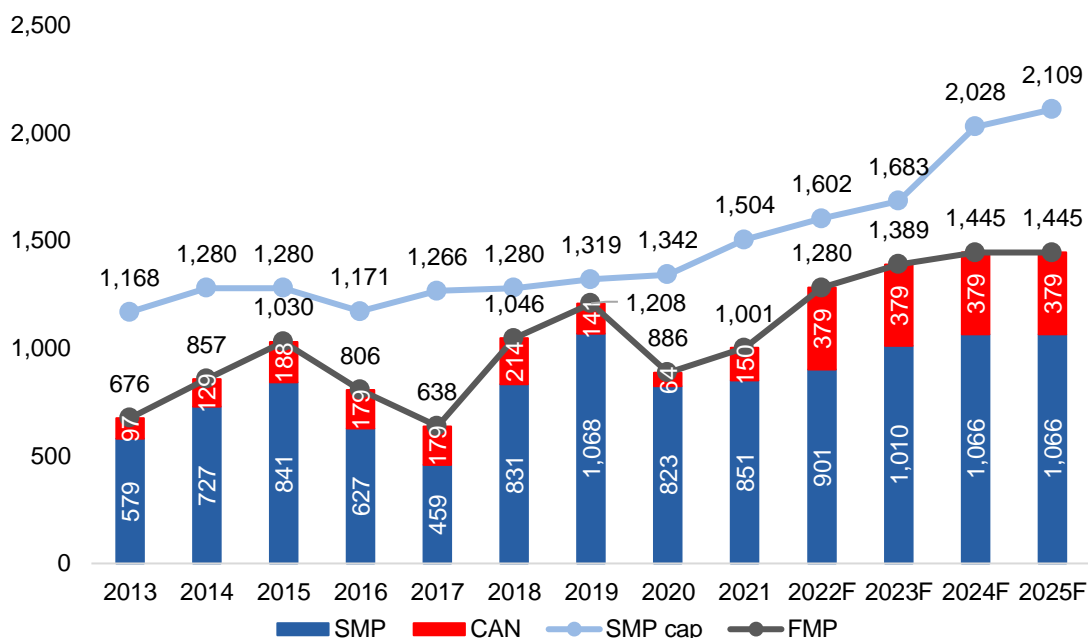
VND bn	2021	2022F	2023F	2024F	2025F	2026F
Revenue	1,611	2,204	2,063	2,085	2,085	2,085
NPAT	388	769	692	751	791	831
Contribution to REE's NPAT-MI (Previous forecast)		176	277	324	368	368
Contribution to REE's NPAT-MI (Revised forecast)		377	339	368	388	407
Revised vs Previous		114%	22%	14%	5%	11%

Source: VCSC, REE

We expect CGM price to increase 28% in 2022.

The monthly CGM price in April 2022 surged to VND1,793/kWh (+62% YoY and +2% MoM). We attribute this higher price to high gas and coal prices despite low electricity consumption. In 4M 2022, the average CGM price was VND1,590 (+44% YoY). We forecast an average CGM price of VND1,280/kWh (+28% YoY) for 2022.

Figure 10: CGM (also known as FMP) price outlook (VND/kWh)



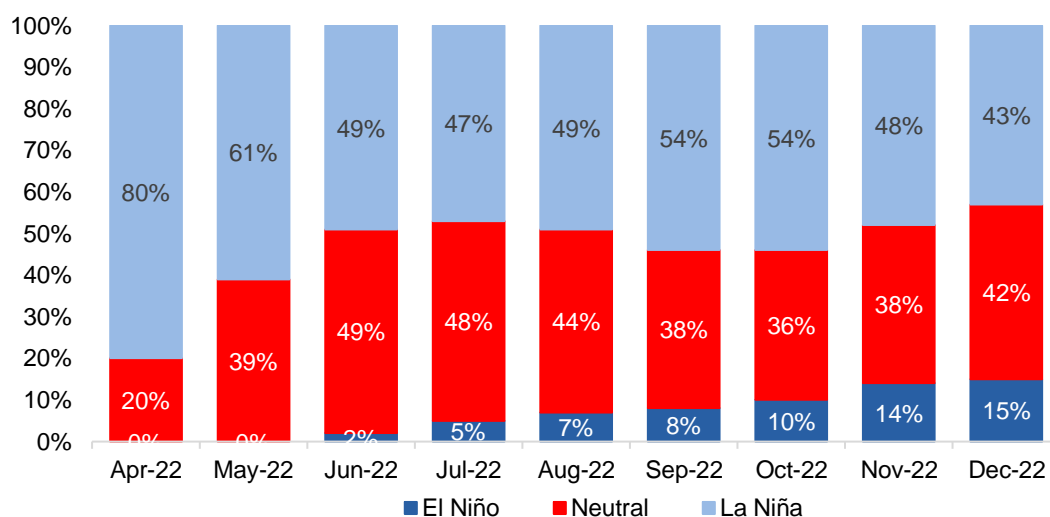
Source: EVN, Ministry of Industry and Trade, VCSC estimates. FMP = full market price.

Note: $CGM/FMP = SMP + CAN$; SMP: the highest auction price needed to be employed in order to balance with the system supply/demand; CAN: the extra price paid for the best new entrant power plant to break even.

Weather forecast suggests slight probability of La Niña for 2022

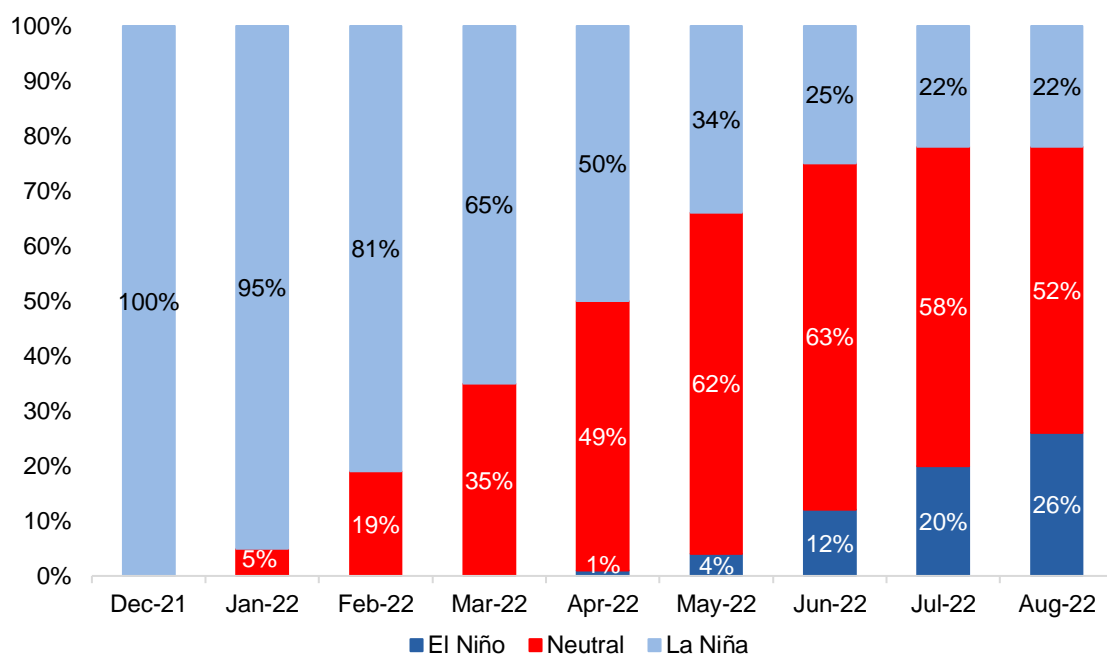
The weather forecast illustrated in **Figure 11** (as of April 2022) predicts that the probability of La Niña (heavy rainfall in Vietnam) is 50%-80% in April - August 2022 compared to 20%-50% forecast as of December 2021 (**Figure 12**).

Figure 11: Probability of weather conditions as of April 2022



Source: International Research Institute for Climate and Society, VCSC

Figure 12: Probability of weather conditions as of December 2021



Source: International Research Institute for Climate and Society, VCSC

Office Leasing Segment: Occupancy rate remains 98% in Q1 2022

REE's occupancy rate remained solid at 98% in Q1 2022. In 2020, REE's occupancy rate dropped from 99.5% in Q1 2020 to 98.5% in Q2 2020 and 97.4% in H2 2020 as a result of COVID-19. In 2021, the occupancy rate marginally improved to 98%. In Q1 2022, REE's office buildings maintained their occupancy rate at over 98%, and the Etown 5 tower's occupancy rate was 100%.

REE is pushing the construction progress of the new Etown 6 office building. This new office building will have a net floor area of 40,000 sqm vs REE's existing 150,000 sqm of total leasable office space. The building's diaphragm wall was completed on March 31. REE targets to finish the pile foundation by April 30 and underground construction by December 31. Overall, the company aims to put this building into operation by Q4 2023.

Figure 13: REE's guidance for Etown 6 construction timeline

Timeline	
Construction permit	August 2021
Foundation and diaphragm wall	October 2021
Full completion	Q4 2023

Source: REE, VCSC compilation

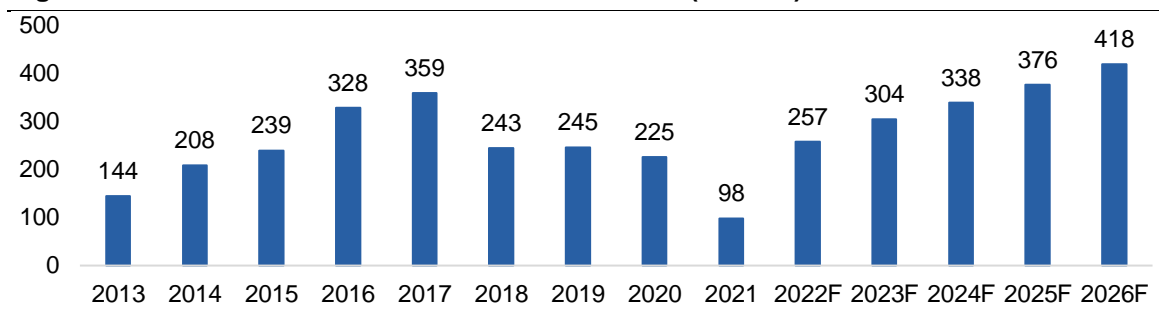
M&E Segment: We expect a 34% NPAT CAGR for 2021-2026F

The M&E segment remained weak in Q1 2022, but its backlog reached a new high. REE's M&E NPAT-MI plunged 63% YoY to just VND13bn (USD0.6mn) in Q1 2022 as M&E projects were still under construction. Meanwhile, REE's newly signed project value was VND4.7tn (USD204mn; +85% YoY) in Q1 2022. We expect the company will start to record earnings after finishing these projects in future quarters. Therefore, we maintain our earnings forecast for this segment in 2022

The fast-tracked construction of Tan Son Nhat International Airport's terminal 3 and Long Thanh International Airport represents potential upside to our forecast. REE posted record high M&E earnings in 2016-2017 after supplying and installing the M&E system for Tan San Nhat

International Airport's terminal upgrade project. In the next five years, we believe that REE will have a competitive advantage to win M&E contracts for Tan Son Nhat terminal 3 and Long Thanh International Airport, both of which are materially larger than Tan Son Nhat's terminal 2 upgrade.

Figure 14: VCSC's forecasts for REE's M&E NPAT-MI (VND bn)



Source: REE, VCSC

Valuation

Sum-of-the-parts target price derivation

We continue to value REE using a sum-of-the parts approach. Our target price derives from:

- **Power generation:** We choose a DCF approach to value REE's investee companies in the power generation segment as it is best suited to measure the cash generation capability of each power plant and renewable energy project, in our view. For smaller investments such as Ninh Binh Thermal Power and Tra Vinh Electricity Transmission Company (DTV), we use REE's investment cost as the contributing value due to these companies' insignificant scale and/or lack of information disclosure. We use our PPC valuation as published in our [PPC Update Report, dated April 28, 2022](#).
- **Office leasing:** For REE's existing portfolio of office buildings (150,000 sqm), we apply a cap rate of 8.5% to our net operating income (NOI) forecast. We value REE's Etown 6 office building using a DCF method.
- **M&E and water treatment:** We choose to value REE's M&E and water treatment segments using the PER approach. Our target PERs of for the M&E and water treatment segments are derived from a four-year average PER of our respective peer group samples.
- **Real estate:** As REE has established REE Land — a holding subsidiary specialized in managing REE's real estate investments — we continue to use the investment cost of REE Land as our valuation for this segment instead valuing each real estate asset separately.
- **We maintain a 10% conglomerate valuation discount to REE total's equity value.**

We increase our target price by 16% due to a 7% increase in our aggregate NPAT forecast for 2022-2026 and 20% higher valuation for the power segment as we believe REE's hydropower portfolio could benefit from potentially high CGM prices across the forecast period. In addition, our higher target price is thanks to the positive impact of rolling it forward to mid-2023.

Figure 15: VCSC's assumptions for WACC

Cost of capital	Previous report	Revised
Beta	1.0	1.0
Market risk premium	7.0%	7.0%
Risk free rate	5.5%	5.5%
Cost of equity	12.5%	12.5%
Cost of debt	8.0%	8.0%
Target debt/capital	20.0%	20.0%
Corporate tax rate	20.0%	20.0%
WACC	11.6%	11.6%

Source: VCSC

Figure 16: VCSC's sum-of-the-parts valuation of REE

VND bn	Method	Projected NAV	Ownership	Attributed value	2022F PER at TP	2023F PER at TP	Peer 4-yr-avg PER
Power generation*				22,649	17.7x	16.5x	12.6x
Hydropower portfolio (499 MW)	DCF			13,645			
PPC - thermal power (280 MW)	Mixed	6,388	24%	1,542			
Solar power portfolio (500 MWp)	DCF	1,667	100%	1,667			
Tra Vinh wind farm (48 MW)	DCF	1,556	100%	1,556			
Thuan Binh wind power (50 MW)	DCF	1,603	61%	972			
NBP - thermal power (29 MW)	Book value**	66	29%	66			
DTV - power transmission	Book value**	56	66%	56			
New wind power projects (400 MW)		3,145	100%	3,145			
Office leasing				8,448	16.4x	15.0x	14.2x
Existing Towers	Cap rate	7,967	100%	7,967			
Etown 6	DCF	481	100%	481			
M&E				2,412	9.4x	7.9x	8.6x
2022F earnings		280					
Target PER		8.6					
Water				3,084	11.1x	10.7x	10.9x
2022F earnings		283					
Target PER		10.9					
Real estate **				209			
Saigon Res	Book value						
Total enterprise value				36,802			
Minus holdco net debt at Q4 2021				-2,375			
Total Equity value				34,428			
Conglomerate discount				10%			
Net Equity value				30,985			
Share count (million)				357			
Target price (VND/share)				86,000	12.7x	11.7x	
Market price (VND/share)				76,500			
Upside				12.4%			
Dividend yield				2.1%			
TSR				14.5%			

Source: REE, VCSC

(*) Capacities shown are ownership-adjusted power generation capacities.

(**) REE's investment cost as stated in Q1 2022 financial statements, already adjusted for ownership.

Comparable peers

Due to its diversified investment portfolio, we recognize that there are no true comparable peers for REE. As such, we pick companies that are comparable to REE's investee companies in each business segment that will provide a good reality check to our SOTP valuation for the power and office leasing segments and produce a target PER multiple for our PER valuation for the M&E and water treatment segments, in our view.

Our peer group has four-year average PERs:

- **12.6x for power generation peers** vs the implied target 2022F PER of 17.7x for the power generation segment. Due to the diversified contributions of both hydropower and thermal power, we compare REE's power portfolio with regional power holding companies that manage or own stakes in multiple power plants.
- **14.2x for office leasing peers** vs the implied target 2022F PER of 16.4x for the office leasing segment. We choose regional players that have exposure to office and retail leasing.

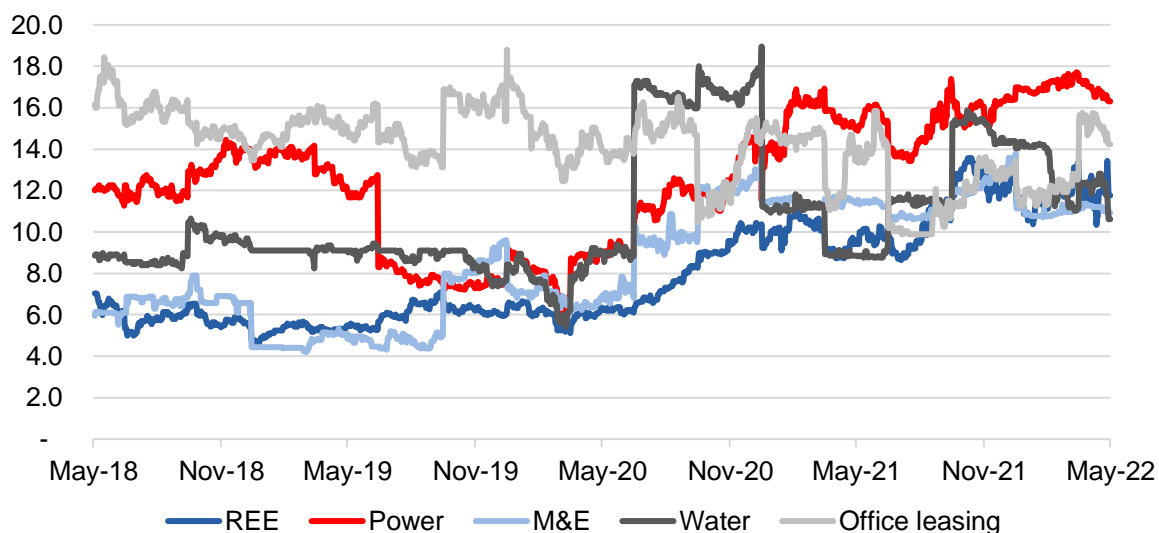
- **8.6x for M&E peers**, which we choose as a target PER for our valuation for REE's M&E segment. We select Vietnamese companies in the air conditioning control and refrigeration engineering segments, which are similar to REE's core M&E segment.
- **10.9x for water treatment peers**, which we choose as a target PER for our valuation for REE's water treatment segment. We have selected regional peers, including listed water supply companies in Asia.

Figure 17: Peer comparison

USD mn	Market Cap	TTM Net sales	YoY %	TTM NPAT	YoY %	Net D/E (%)	ROE (%)	ROA (%)	Div yield (%)	TTM PER (x)	LQ PBR (x)
POWER											
MER PM	7,094	6,786	25.8	477	37.1	17.2	26.9	5.4	4.6	15.0	3.9
GPSC TP	5,041	2,619	25.9	229	-28.4	80.4	5.3	2.1	2.4	30.8	1.6
TPWR IN	9,565	5,747	31.9	234	54.5	169.6	7.8	1.6	0.7	33.6	3.3
RATCH TB	1,637	1,443	48.6	243	3.6	65.9	10.5	5.3	6.1	8.2	0.8
2380 HK	5,245	5,386	22.2	-80	N/A	200.0	-1.5	-0.3	4.1	N/A	1.0
9507 JP	1,354	5,717	-10.7	-56	N/A	245.5	-2.0	-0.4	3.8	N/A	0.5
BPP TB	1,421	271	61.4	98	33.2	29.5	10.9	7.7	4.0	9.8	1.0
FPH PM	618	2,644	25.0	203	-1.9	39.8	8.4	2.5	3.3	3.3	0.3
KEL PA	360	N/A	N/A	-19	N/A	72.4	N/A	N/A	N/A	N/A	0.3
NBVL IN	294	449	32.3	69	22.3	48.4	11.1	5.1	1.6	4.5	0.5
Median	1,529	2,644	25.9	150.6	22.3	69.1	8.4	2.5	3.8	9.8	0.9
OFFICE LEASING											
600007 CH	2,277	569	13.8	159	22.7	-1.6	12.3	8.3	2.6	14.5	1.7
RLC PM	1,763	531	-18.1	164	30.2	23.4	5.7	3.0	4.1	14.3	0.7
034810 KS	276	1,902	206.0	43	-94.0	36.0	7.6	2.8	1.3	15.1	0.5
CMC TB	44	33	-18.2	1	N/A	86.6	-0.9	-0.4	2.7	N/A	0.6
AKH IN	3	-	N/A	-3	N/A	-26.7	-26.3	-25.3	N/A	N/A	0.3
Median	276	531	-2.2	43.2	22.7	23.4	5.7	2.8	2.7	14.5	0.6
M&E											
SRF VN	21	41	-33.0	1	-25.1	91.9	6.0	1.5	N/A	17.0	1.0
MCG VN	5	11	-0.4	1	6.1	2.7	7.5	4.8	8.1	9.6	0.7
DHP VN	4	4	333.6	1	N/A	-1.9	20.0	18.3	N/A	4.6	0.8
KSD VN	12	7	33.0	-2	-266.3	-4.4	-16.6	-4.5	N/A	N/A	1.4
Median	8	9	16.3	0.7	-25.1	0.4	6.7	3.2	8.1	9.6	0.9
WATER											
MWC PM	968	410	0.5	75	-23.1	98.2	4.6	2.2	3.0	14.3	0.5
EASTW TB	430	66	14.4	23	18.0	92.8	5.4	2.6	6.5	22.8	1.2
WHAUP TB	315	139	6.1	33	14.9	86.6	N/A	N/A	6.4	11.5	1.0
TWK MK	425	73	-4.9	19	32.0	-3.2	8.4	3.9	7.1	23.8	2.1
3768 HK	216	359	20.8	52	-2.9	103.9	7.8	3.0	12.4	4.3	0.3
RAHH MK	147	369	4.3	7	-18.6	81.9	5.1	1.1	N/A	19.1	0.9
6136 HK	191	453	-12.4	64	-12.3	169.8	8.1	2.3	N/A	3.1	0.2
6839 HK	71	819	-37.1	-138	22.3	372.1	-21.8	-1.9	15.4	N/A	0.1
PBAH MK	61	81	-0.4	9	48.4	14.5	5.1	2.5	2.8	7.3	0.4
Median	216	359	0.5	23.0	14.9	92.8	5.3	2.4	6.5	12.9	0.5
Median for all segments	507	886	10.1	54.4	8.7	46.4	6.5	2.7	5.3	11.7	0.7
REE VN	1,078	292	18.3	80.9	19.3	56.4	16.7	8.0	1.2	11.3	2.0

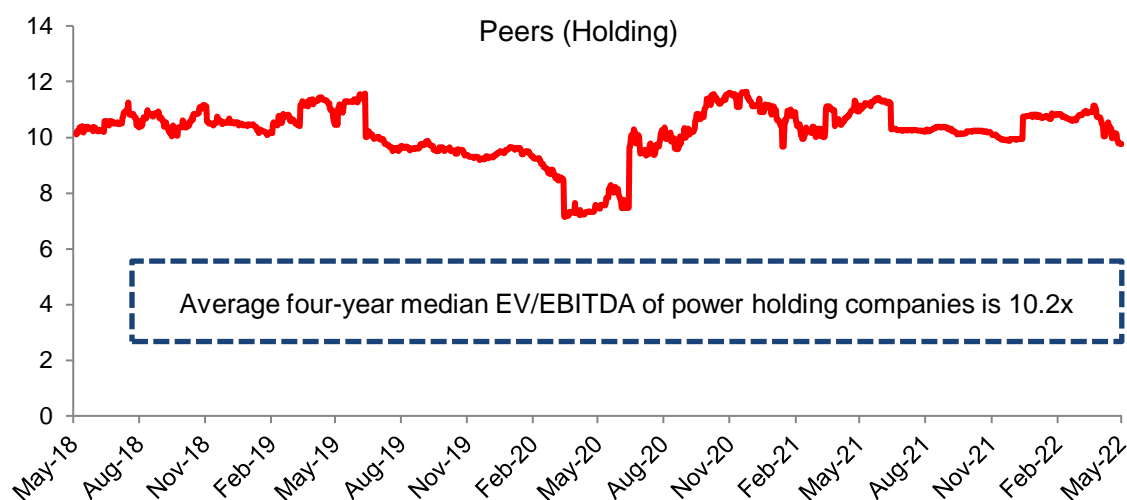
Source: Bloomberg, VCSC (data as of May 19, 2022)

Figure 18: REE's historical PER vs peers (x)



Source: Bloomberg, VCSC

Figure 19: Historical median trailing EV/EBITDA of power peers (x)



Source: Bloomberg, VCSC

Recommendation History

Figure 20: Historical target price and recommendation (VND/share)



Source: Bloomberg, VCSC

Appendix 1: REE's business restructuring plans

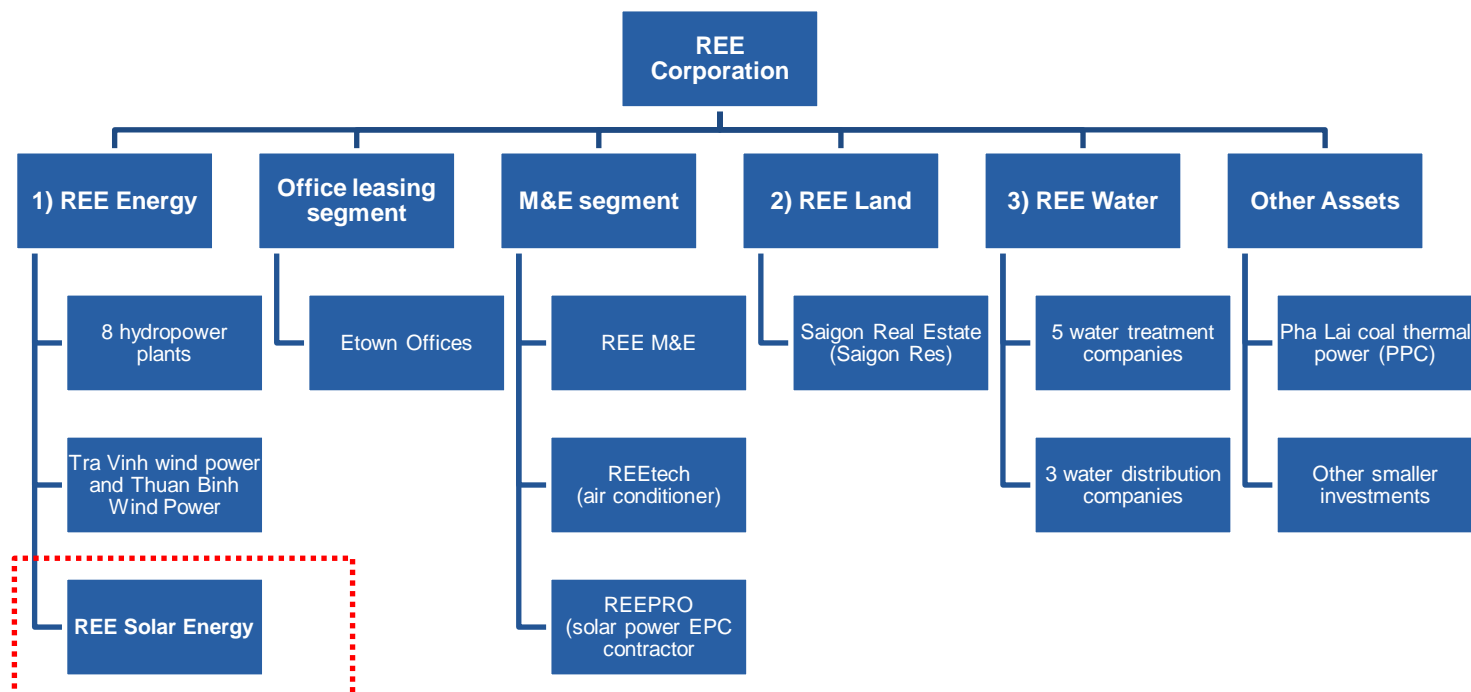
On September 30, 2020, REE's BOD approved plans to set up three holding companies that will directly own and manage REE's assets in each of the company's business segments. These holding companies include: 1) **REE Energy Ltd** in the power generation segment (charter capital: VND5tn-6tn / USD217mn-273mn); 2) **REE Water Ltd** in the clean water treatment and distribution segment (charter capital: VND1.6tn / USD70mn) and 3) **REE Land Ltd** in the real estate segment (charter capital: VND912bn / USD39mn). Meanwhile, **REE's M&E segment** will continue to be managed by two subsidiaries: REEtech (book value: VND150bn / USD6mn) and REE M&E (book value: VND150bn / USD6mn). The **office leasing segment** will continue to be owned and managed at the holdco level.

We believe the new holding structure adds value for existing shareholders as it (1) allows each business segment to raise capital/debt more efficiently and independently from the parent company, (2) simplifies the process of forming strategic or R&D partnerships at each business segment and (3) prepares for the possibility of spinning off and listing each holding company, if necessary.

REE Energy manages all of REE's power assets. We understand that REE Energy's portfolio is comprised of 100% green energy and does not include Pha Lai Thermal Power, which is REE's largest legacy investment in coal-fired power generation. However, for easy restructuring, this investment is still under REE Energy. REE divested its stake in QTP and we expect that it will also divest PPC over the long term.

REE Solar Energy is an environmental, social and governance (ESG)-friendly company. This implies a potential spin-off if REE and its partner so desire. This company is completely investable for foreign institutions with strict ESG investing mandates.

Figure 21: REE's new holding structure



Source: REE, VCSC

Figure 22: REE's subsidiaries and associates

Company name	Company code	Exchange	Ownership	Book value (VND bn)
REE Energy				5,318
Central Hydropower JSC	CHP	HOSE	22.68%	616
South Hydropower JSC	SHP	HOSE	11.09%	204
Thac Ba Hydropower JSC	TBC	HOSE	60.42%	655
Thac Mo Hydropower JSC	TMP	HOSE	42.63%	382
Vinh Son – Song Dinh JSC	VSH	HOSE	49.52%	1,973
Pha Lai Thermal Power JSC	PPC	HOSE	24.14%	826
Ninh Binh Thermal Power JSC	NBP	HNX	29.45%	66
IDICO Srok Phu Mieng Hydropower JSC	ISH	UPCoM	34.30%	173
Ba Ha River Hydropower JSC	SBH	UPCoM	25.76%	368
Binh Dien Hydropower JSC	BDH		25.47%	60
Muong Hum Hydropower JSC *	MHP		49.06%	325
Thuan Binh Wind Power JSC	TBW		60.65%	146
REE Solar Energy JSC	REE SE		99.99%	350
M&E segment				300
REE M&E JSC	REE M&E		99.99%	150
REE Electricity Appliances JSC	REETech		99.99%	150
REE Land				262
Saigon Real Estate JSC	Saigon Res		28.87%	54
REE Water				1,614
Thu Duc Water Supply JSC	TDW	HOSE	44.17%	68
Gia Dinh Water Supply JSC	GDW	HNX	20.05%	25
Nha Be Water Supply JSC	NBW	HNX	20.02%	40
Khanh Hoa Supply SJC	KHW	UPCoM	43.88%	257
Song Da Water Investment JSC	VCW	UPCoM	35.95%	691
BOO Thu Duc Water JSC	BOO		42.07%	410
Tan Hiep Clean Water Investment JSC	THW		32.00%	78
Saigon Clean Water Business & Inv JSC	SWIC		30.00%	45

Source: REE, VCSC. (*) TBC owns another 50.94% of MHP, bringing REE's effective ownership at MHP to 79.84%. Ownership and book value was as in September 2020 — the time of REE Energy's and REE Water's inception.

Appendix 2: Capacity expansion potential

Wind power. REE acquired a controlling stake in Thuan Binh Wind Power (TBW) in November 2019. REE raised its ownership in TBW from 25% to 49% after purchasing 24% from Electricity Vietnam (EVN) at a valuation of VND300bn (USD13mn) via a public auction. Per REE, it holds more than 50% of voting rights at TBW and thus has consolidated the company into the group. We estimate that REE's effective ownership at TBW is 61% thanks to 50% direct ownership and 25% ownership from TMP (REE's 43%-owned associate) as of YE2020. TBW plans to apply for licenses for 1,000 MW wind power in Binh Thuan, Ninh Thuan, Gia Lai and Dak Lak provinces.

In March 2021, REE's chairman shared that the company was working with a foreign partner to seek licenses to develop a giant wind offshore power project with a capacity of 2,000 MW.

We note that further capacity expansion — such as the second phase of the Tra Vinh offshore wind farms (48 MW) and Thuan Binh Wind Power's 400 MW of wind power pipeline projects in Dak Lak, Gia Lai and Binh Thuan — is highly dependent on the attractiveness of Vietnam's next wind power FiT, in our view.

Figure 23: REE's upcoming projects

	Projects	Location	Landbank (ha)	Wind power Capacity (MW)	Solar power capacity (MW)
1	Phu Lac	Binh Thuan Province	400		100
2	Loi Hai	Ninh Thuan Province	523		70
3	Vinh Hao	Binh Thuan Province	600	60	
4	Ea H'Leo	Dak Lak	1,920	150	200
5	Kong Chro	Gia Lai	3000	200	200
	Total		7,315	410	480

Source: REE, VCSC

Hydropower and floating solar. REE's 40%-owned associate Thac Mo Hydropower (TMP) will raise its hydropower capacity by 50% to 225 MW. TMP is in the process of purchasing the Thac Mo expansion project (75 MW) from EVN for USD50mn (we have not modeled in this acquisition). In addition, TMP plans to increase its solar capacity 8x to 400 MWp over the next five years vs 50 MWp in 2021F

Financial Statements

P&L (VND bn)	2021	2022F	2023F	2024F	B/S (VND bn)	2021	2022F	2023F	2024F
Revenue	5,810	9,317	10,306	11,749	Cash & equivalents	1,831	4,035	4,221	5,195
COGS	-3,500	-5,650	-6,348	-7,149	ST investment	914	0	0	0
Gross Profit	2,310	3,667	3,958	4,600	Accounts receivables	2,987	2,553	2,824	3,219
Sales & Marketing exp	-85	-112	-124	-141	Inventories	800	1,316	1,478	1,665
General & Admin exp	-370	-302	-314	-341	Other current assets	275	275	275	275
Operating Profit	1,854	3,253	3,520	4,118	Total Current assets	6,806	8,179	8,798	10,354
Financial income	466	189	226	255	Fix assets, gross	24,252	26,559	31,859	37,159
Financial expenses	-707	-905	-1,060	-1,138	- Depreciation	-6,218	-7,384	-8,922	-10,842
- o/w interest expense	-663	-905	-1,060	-1,138	Fix assets, net	18,034	19,175	22,937	26,317
Associates	774	755	780	907	LT investment	6,261	6,498	6,772	7,157
Net other income/(loss)	13	13	13	13	LT asset other	726	726	726	726
Profit before Tax	2,400	3,306	3,479	4,156	Total LT assets	25,021	26,399	30,434	34,199
Income Tax	-264	-330	-358	-452	Total Assets	31,827	34,578	39,232	44,553
NPAT before MI	2,135	2,976	3,121	3,704	Accounts payable	1,682	2,012	2,261	2,546
Minority Interest	-280	-552	-495	-531	Short-term debt	1,234	791	1,760	1,956
NPAT less MI, reported	1,855	2,423	2,626	3,173	Other ST liabilities	1,147	1,147	1,147	1,147
NPAT less MI, adjusted⁽¹⁾	1,523	2,423	2,626	3,173	Total current liabilities	4,062	3,951	5,168	5,649
EBITDA	2,747	4,420	5,059	6,038	Long term debt	10,740	11,094	12,079	13,891
EPS reported, VND	5,203	6,796	7,364	8,899	Other LT liabilities	667	667	667	667
EPS adjusted ⁽¹⁾ , VND	4,254	6,771	7,338	8,867	Total Liabilities	11,407	11,761	12,746	14,558
EPS fully diluted, VND	4,254	6,771	7,338	8,867	Preferred Equity	0	0	0	0
DPS, VND	1,000	1,600	1,600	1,600	Paid in capital	3,101	3,566	3,566	3,566
DPS/EPS (%)	19%	24%	22%	18%	Share premium	1,050	1,050	1,050	1,050
(1) Adjusted for one-off gains/losses					Retained earnings	8,964	10,565	12,621	15,224
RATIOS	2021	2022F	2023F	2024F	Other equity	187	187	187	187
Growth					Minority interest	3,056	3,498	3,894	4,319
Revenue growth	3.0%	60.4%	10.6%	14.0%	Total equity	16,358	18,867	21,318	24,346
Op profit (EBIT) growth	49.8%	75.4%	8.2%	17.0%	Liabilities & equity	31,827	34,578	39,232	44,553
EPS growth, adjusted	-8.1%	59.2%	8.4%	20.8%					
EPS growth, reported	14.0%	30.6%	8.4%	20.8%	Y/E shares out, mn	310	357	357	357
					Y/E treasury shares, mn	1.0	1.0	1.0	1.0
Profitability					CASH FLOW (VND bn)	2021	2022F	2023F	2024F
Gross Profit Margin	39.8%	39.4%	38.4%	39.2%	Beginning Cash Balance	652	1,831	4,035	4,221
Op Profit, (EBIT) Margin	31.9%	34.9%	34.2%	35.1%	Net Income	1,855	2,423	2,626	3,173
EBITDA Margin	47.3%	47.4%	49.1%	51.4%	Dep. & amortization	893	1,166	1,538	1,920
NPAT-MI Margin, reported	31.9%	26.0%	25.5%	27.0%	Change in Working Cap	-1,109	249	-185	-297
ROE	15.0%	16.9%	16.0%	16.9%	Other adjustments ⁽²⁾	-115	-203	-284	-376
ROA	7.1%	7.3%	7.1%	7.6%	Cash from Operations	1,525	3,636	3,695	4,420
Efficiency					Capital Expenditures, net	-3,912	-2,308	-5,300	-5,300
Days Inventory On Hand	91	68	80	80	Investments, net ⁽³⁾	1,900	1,432	506	522
Days Accts, Receivable	153	108	95	94	Cash from Investments	-2,013	-875	-4,794	-4,778
Days Accts, Payable	162	119	123	123	Dividends Paid	0	-357	-571	-571
Cash Conversion Days	82	58	53	51	Δ in Share Capital	0	0	0	0
Liquidity					Δ in ST debt	0	-443	969	196
Current Ratio x	1.7	2.1	1.7	1.8	Δ in LT debt	1,632	354	985	1,812
Quick Ratio x	1.5	1.7	1.4	1.5	Other financing C/F	35	-110	-99	-106
Cash Ratio x	0.5	1.0	0.8	0.9	Cash from Financing	1,667	-556	1,285	1,331
Debt / Assets	37.6%	34.4%	35.3%	35.6%	Net Change in Cash	1,179	2,204	185	974
Debt / Capital	42.3%	38.6%	39.4%	39.4%	Ending Cash Balance	1,831	4,035	4,221	5,195
Net Debt / Equity	56.4%	41.6%	45.1%	43.8%					
Interest Coverage x	2.8	3.6	3.3	3.6					

(2) Deduct income from associates, (3) Including dividend from associates

Source: Company data, VCSC

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Stock ratings are set based on projected total shareholder return (TSR), defined as (target price – current price)/current price + dividend yield, and are not related to market performance.

Equity rating key	Definition
BUY	If the projected TSR is 20% or higher
OUTPERFORM	If the projected TSR is between 10% and 20%
MARKET PERFORM	If the projected TSR is between -10% and 10%
UNDERPERFORM	If the projected TSR is between -10% and -20%
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Contacts

Corporate

www.vcsc.com.vn

Head Office

Bitexco Financial Tower, 15th Floor
2 Hai Trieu Street, District 1, HCMC
+84 28 3914 3588

Hanoi Branch

109 Tran Hung Dao
Hoan Kiem District, Hanoi
+84 24 6262 6999

Transaction Office Nguyen Hue

Vinatex Building, 1st & 3rd Floor
10 Nguyen Hue Street, District 1, HCMC
+84 28 3914 3588 (417)

Transaction Office Nguyen Cong Tru

Floor 6B, 236-238 Nguyen Cong Tru Street
District 1, HCMC
+84 28 3914 3588 (400)

Transaction Office Dong Da

9 Nguyen Ngoc Doan
Dong Da District, Hanoi
+84 24 6262 6999

Transaction Office ABS

Sailing Tower, 8th Floor
111A Pasteur Street, District 1, HCMC
+84 28 3914 3588 (403)

Research

Research Team: +84 28 3914 3588
research@vcsc.com.vn

Alastair Macdonald, Head of Research, ext 105
alastair.macdonald@vcsc.com.vn

Banks, Securities and Insurance

Long Ngo, Associate Director, ext 123

- Truc Ngo, Analyst, ext 116
- Ngoc Huynh, Analyst, ext 138
- Nhan Nguyen, Analyst, ext 139

Macro

Luong Hoang, Manager, ext 364

- Nguyen Truong, Senior Analyst, ext 132

Consumer

Nam Hoang, Manager, ext 124

- Ha Dao, Senior Analyst, ext 194
- Ha Huynh, Analyst, ext 185
- Huy Phan, Analyst, ext 173

Oil & Gas and Power

Duong Dinh, Senior Manager, ext 140

- Tram Ngo, Manager, ext 135
- Duc Le, Analyst, ext 196
- Thang Hoang, Analyst, ext 151

Real Estate and Infrastructure

Hong Luu, Senior Manager, ext 120

- Dang Thai, Senior Analyst, ext 149
- Duc Pham, Analyst, ext 174
- Thuc Than, Analyst, ext 174

Materials and Industrials

Vy Nguyen, Manager, ext 147

- Vinh Bui, Analyst, ext 149

Retail Client Research

Duc Vu, Senior Manager, ext 363

- Trung Nguyen, Senior Analyst, ext 129
- Anh Tong, Analyst, ext 363
- Ha Bui, Analyst, ext 364

Brokerage and Institutional Sales & Trading

Tuan Nhan

Managing Director, Brokerage & Institutional Sales & Trading

+84 28 3914 3588, ext 107

tuan.nhan@vcsc.com.vn

Quynh Chau

Managing Director Brokerage

+84 28 3914 3588, ext 222

quynh.chau@vcsc.com.vn

Dung Nguyen

Director Institutional Sales & Trading

+84 28 3914 3588, ext 136

dung.nguyen@vcsc.com.vn