Please note that this power point is for visual approvals only and has not been setup to be used as a full template. [Master slides not yet created, included photos are stock]
Growth-oriented North American power producer

- Highly-contracted, young and diversified portfolio
- Targeting 10-12% total shareholder return
- Targeting net carbon neutral before 2050

Operational facilities

~6,400 MW
26 facilities

Projects under development

985 MW
7 renewable projects and Genesee 1&2 repowering
Increasing growth and getting to net carbon neutral by 2050

Decarbonization Strategies

- Investing in emissions-free renewables
- Investing in critical natural gas generation
- Transitioning heritage coal generation to natural gas

Today

- Building and acquiring wind and solar in Canada and the U.S.
- Acquiring key facilities in Canada and the U.S.
- Repower and move to 100% natural gas capability

2024 and beyond

- Integration of storage technologies
- Reduce emissions through CCS, carbon utilization and hydrogen use

Strategies
Gas generation vital for reliability and flexibility

**Growth drivers**
- Coal & nuclear retirements
- Renewables proliferation
- Low gas prices

**Value of incumbent assets**
- High barrier to entry
- Strategic placement
- Optimization potential

Forecasted natural gas generation in the US\(^{(1)}\)

- **2020**: 717 gw Gas, -202 gw Coal
- **2040**: 719 gw Gas, +205 gw Gas

1) Source: Bloomberg New Energy Finance, New Energy Outlook 2020
Natural gas is critical to power reliability

1) 2019/20 data
Advancing CO₂ reduction initiatives

- Developing plans to apply CCUS technology at Genesee 1&2
  - Significant government support for CCUS applications
  - Development going very well
  - Set to reduce emissions by 3 million tonnes annually

- Genesee Carbon Conversion Centre
  - Creates carbon nanotubes from Genesee 3 emissions
  - Continuing commercial investigation
  - Board approval expected later this year

CCUS initiatives support a low-carbon energy future
Growth strategy

- Growth strategy aligns with our sustainability goals
- Target markets support $500M annual capital investment
- Strong renewable growth pipeline in Alberta and the U.S.
- Potential acquisition of mid-life natural gas assets
- Targeting 10-12% total shareholder return over the long term
Dynamic pipeline supports resilient & responsible growth

2021 Growth Target: Invest $500M

Solar
8 sites
Potential: 360 MW
Committed: 276 MW
Total: 636 MW

Wind
9 sites
Potential: 1,129 MW
Committed: 151 MW
Total: 1,280 MW

Storage
3 sites
Potential: TBD

Gas
6 sites
Potential: 1,700 MW
Securing long term PPAs delivers stable cash flows

**Decatur**
(Alabama)
- 10-year tolling agreement extension to 2032 with current counterparty (A-rated)
- Extension includes additional capacity from upgraded combustion turbines (855 MW total capacity)

**Strathmore Solar**
(AB)
- 25-year PPA with TELUS
- Bundled energy & environmental attributes
- 40.5 MW
- COD expected in Q1/22

**Enchant Solar**
(AB)
- 15-year renewable energy agreement with Labatt for sale of electricity and RECs
- Virtual PPA for 51% of electricity from Enchant Solar; ¼ RECs from Enchant, ¾ from Eastern Canada
- 75 MW
- COD expected in Q4/22

**3 solar projects**
(North Carolina)
- 20-year PPA with investment grade counterparty
- Bundled energy & environmental attributes
- 160 MW
- COD expected in Q4/22
- Competitive in the U.S.
Continued growth in renewable assets
Adjusted EBITDA from renewables expected to increase from 27% to 34%

Renewable projects and repowering will contribute materially to progress on emissions intensity and absolute reduction targets
Alberta power market

- Market showing strong recovery from impacts of COVID-19 and low oil prices
- Supply has responded to lower demand with other market participants announcing the retirement of Sundance 3 and delays on some cogen and renewable projects
- All output controlled by commercial market participants since start of 2021
Robustness of Alberta power market

- Above average temperatures in June contributed to average power price of $105/MWh in Q2/21
- Average power price of $100/MWh in H1/21 with $94/MWh forward prices for H2/21

42% higher realized price of $75/MWh compared to $53 in Q2/20

### AB hedged positions

<table>
<thead>
<tr>
<th></th>
<th>2022</th>
<th>2023</th>
<th>2024</th>
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</thead>
<tbody>
<tr>
<td>% sold forward¹</td>
<td>42%</td>
<td>30%</td>
<td>15%</td>
</tr>
<tr>
<td>Contracted prices²</td>
<td>High-$50</td>
<td>Mid-$50</td>
<td>Mid-$50</td>
</tr>
<tr>
<td>Current forward prices²</td>
<td>$72</td>
<td>$61</td>
<td>$52</td>
</tr>
</tbody>
</table>

¹ As of June 30, 2021. Based on the Alberta baseload facilities plus a portion of Joffre and the uncontracted portion of Shepard.
² As of July 28, 2021.
Alberta power market
COVID-19 and crude oil impact

- Largest 2020 vs. 2019 yoy decline in power demand was 7.2% due to COVID-19 pandemic and low crude oil prices
- Demand started to recover as the economy re-opened
- Seeing demand recovery in 2021 but still some uncertainty regarding the rate of recovery
- New all time summer peak demand of 11,721 MW on Jun 29/21 due to prolonged heat wave

1) Source: AESO, Capital Power
Financial strategy

• Deploying capital for the repowering of Genesee 1&2 and growing renewables portfolio
• Disciplined growth with focus on predictable cash flows and sustainability goals
• Dividend growth of 7% in 2021 and 5% in 2022
• Maintain investment grade credit rating
Overview of financial strategy

- Fund growth in a cost-effective manner
- Access various sources of capital and seek innovative ways to fund growth

- Maintain competitive cost of capital
- Ensure access to capital markets through business cycles
- Provides stability to the dividend

- Provide dividend stability through contracted cash flow profile
- Annual dividend growth within long term AFFO payout ratio target of 45% to 55%

- Properly laddered debt maturities
- Effective management of interest rate, foreign exchange and counterparty risk
Successful financings to fund growth initiatives

- Completed successful equity offering of ~7.5 million common shares (including exercise of over-allotment option) in June for total gross proceeds of $288M
  - Share price has rebounded from the $38.45 issue price following closing of offering
- Executed a US$150M private placement of 12-year senior notes
  - Coupon rate of 3.24% is the lowest coupon rate of our private placement notes at a tenor that aligns with our long asset lives
  - Transaction expected to fund in Oct 2021 with maturity in Oct 2033
  - Demonstrates investors’ continued confidence in our long-term outlook
- Recent affirmations of investment grade credit ratings and stable outlook by S&P and DBRS
- 2-year extension of the current $1B credit facilities and converted to sustainability-linked credit facilities

Successful financings have reduced financing risk and the need for additional equity offerings for current growth projects
Solid track record with 8th year of stable dividend growth

Annualized dividend per share\(^{(1,2)}\)

- 2013 Y/E: $1.26
- 2014 Y/E: $1.36
- 2015 Y/E: $1.46
- 2016 Y/E: $1.56
- 2017 Y/E: $1.67
- 2018 Y/E: $1.79
- 2019 Y/E: $1.92
- 2020 Y/E: $2.05
- 2021: $2.19
- 2022T: $2.30

\(~7\%\) CAGR since 2013

1) Subject to market conditions, economic outlook, cash flow forecast, and Board approval at the time.
2) 2013 to 2021 annualized dividend based on year-end quarterly common shares dividend declared.
3) Dividend payout ratio based on dividends declared per year as a percentage of AFFO per share.

Payout ratio continues to be below target range of 45% to 55%

42% Payout\(^{(3)}\)
50% Payout
45% Payout
45% Payout
35% Payout
40% Payout
~40% Payout
~7%
Capital allocation balance

- Balanced focus between dividend growth and growth opportunities
- Allocating capital strategically to develop, commercialize and implement technologies to support sustainability targets
- Share buybacks and debt repayment are considered during periods of limited growth opportunities
- Capital recycling considered with significant capital requirements and/or undervaluation of assets

Efficient capital allocation creating shareholder value
Repowering Genesee 1&2 delivers long term value
Lower operating costs, useful asset life extension, long-term cash flow growth

- Favourable economics – $997M capital cost, 20%+ levered returns, ~$0.70 average accretion to AFFO/share
- 560 MW net capacity increase (total 1,360 MW)
- Best-in-class NGCC technology with heat rate (6.6-6.7 GJ/MWh) advantage over all current and announced natural gas facilities
- Significant environmental benefits – intensity of 0.35t/MWh; below Alberta’s TIER regulation benchmark of 0.37t/MWh
- Carbon conversion ready and hydrogen capable (30% to start and upgradable to 95%)
Genesee more competitive after repowering

Estimated variable cost merit order in 2025

- GN1 & 2 Dual Fuel
- GN3 Dual Fuel
- GN1 & 2 Repower
- GN3 CTG

- GN 1 & 2 become very efficient
- GN 3 remains in middle of stack
- Older CTG units not competitive (retire?)
Managing Alberta carbon exposure

Low-cost offsets and transition to gas protect and enhance asset value

1) Based on current Alberta TIER regulation and assumes carbon prices follow the announced federal government increases. Excludes offsets created by merchant renewables.
EBITDA growth from 7 renewable projects

Annualized EBITDA of ~$70M

- Enchant Solar
- Whitla 2
- Whitla 3
- Hornet Solar
- Hunter’s Cove Solar
- Bear Branch Solar
- Strathmore Solar

Full-year financial contributions starting in 2023 from growth capex in 2021-22

Average annualized EBITDA ~$70M and AFFO of ~$55M after completion in late 2021 and 2022
H1/21 performance versus 2021 annual targets

Facility availability
- Q2/21 YTD: 90%
- Target: 93%

Sustaining capex ($M)
- Q2/21 YTD: $47
- Target: $80 to $90

Adjusted EBITDA ($M)
- Q2/21 YTD: $544
- Revised Target: $1,090 to $1,140

AFFO ($M)
- Q2/21 YTD: $250
- Target: $500 to $550
- Revised Target: $570 to $620

Revised adjusted EBITDA and AFFO targets above top end of original guidance ranges

1) AFFO target excludes impact from the Line Loss Rule (LLR) Proceeding. Q2/21 results includes a cash outflow of $13M related to LLR Proceeding.
Sustainability / investment opportunity

• Advancing a low carbon future with a clear path to net carbon neutral before 2050
• Natural gas generation has a necessary long-term role in power
• Accelerating ESG initiatives
Capital Power’s (R)Evolution

2009–Today

- Genesee efficiency program - 12% decrease in GHG by 2021
- Over $3B invested in/committed to renewables
- C2CNT interest increased to 40%
- Over $40M invested in carbon capture research
- Completed two CCUS FEED studies (2007/2011)

Today–2024

- Complete repowering and off coal
- Invest in renewables, strategic natural gas
- CCU: C2CNT & beyond
- Pilot/demo renewables + storage project
- CCUS FEED study at Genesee
- Assess hydrogen at Genesee
- Explore commercial/physical Direct Air Capture (DAC) solutions

2024–2030

- Expand CCU
- Develop CCUS and/or hydrogen application at Genesee
- Add DAC to carbon compliance portfolio

2030–2050

- Net carbon neutral via physical solutions on natural gas assets, DAC and “offsets”
- Invest in DAC facility
- Renewables + storage as baseload

2050–2070

- Physical decarbonization
### Target: Achieve net carbon neutrality by 2050

<table>
<thead>
<tr>
<th>Scope 1 Emissions&lt;sup&gt;(1)&lt;/sup&gt;</th>
<th>Strategic Investments</th>
<th>Sustainability Highlights</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>50%</strong> reduction at Genesee by 2030</td>
<td><strong>Construct</strong> all natural gas generation units to be carbon capture and/or hydrogen ready</td>
<td>• Enhanced sustainable sourcing plan (2021)</td>
</tr>
<tr>
<td><strong>10%</strong> reduction in fleet emissions by 2030</td>
<td><strong>Repower Genesee 1&amp;2</strong> from coal to natural gas</td>
<td>• Enhanced water management plan (2021)</td>
</tr>
<tr>
<td><strong>65%</strong> reduction in emission intensity by 2030</td>
<td><strong>CCUS:</strong> Invest in carbon capture, utilization and sequestration</td>
<td>• At least 30% women on the Board and Executive Team</td>
</tr>
<tr>
<td><em>Genesee Carbon Conversion Centre</em> completed in the first half of 2022</td>
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</tr>
</tbody>
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1) Baseline year: 2005
## Accelerating ESG initiatives

### Environmental

- Net carbon neutral before 2050
- Genesee repowering
- Renewables development
- Natural gas with carbon conversion and/or hydrogen
- A- CDP climate change score

- Sustainable sourcing roadmap on track to roll out in 2021
- Water strategy on track to roll out in 2021

### Social

- Optimal workplace of the future to reflect key learnings and benefits from COVID-19
- Increased community investment funding in 2021; building off robust and generous response to COVID-19 relief efforts
- Indigenous training, employment and economic opportunities at Canadian wind facilities through new Vestas agreement
- Transitional support for employees at Roxboro, Southport, Genesee
- Committed to Equal by 30 – supporting gender equity in our industry

### Governance

- 25% of Executive short-term incentive pay linked to meeting ESG targets
- 44% of Board and 43% of Executive female versus 30% target
- Executive short-term incentive linked to presentation of diverse candidates for corporate and plant positions
- 2021 review to identify and minimize institutional bias in policies, procedures and results
- World’s Most Ethical Companies\(^1\) award 3 years running – 1 of 4 Canadian companies and 1 of 9 energy and utilities companies worldwide

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1) Named one of the 2021 World’s Most Ethical Companies by Ethisphere on February 23, 2021.
Attractive investment opportunity

Resilient strategy drives growth and accelerates net carbon neutral before 2050

Success in renewables from innovation and optimization

• Recent success in solar more than doubles our growth opportunities
• Long-term contracts for solar projects in North Carolina and Alberta affirm competitiveness

Genesee repowering capitalizes on strong Alberta market and in-house innovation

• Most efficient natural gas combined cycle facility in Canada
• Significantly reduced carbon footprint and risk
• Carbon conversion ready and hydrogen achievable

Operational excellence and innovation remain fundamental

• $50 million EBITDA from Ops 2030 program
• Genesee Carbon Conversion Centre
• Carbon capture and storage under development

Revised 2021 financial guidance above top end of original guidance ranges based on positive Alberta power market outlook
Appendices

- Alberta portfolio optimization
- Credit rating metrics
- Debt maturity schedule
- Capital program
- Cash flow & financing outlook
Maximizing the Alberta commodity portfolio
Creating incremental value and stability through market expertise

Average realized power prices\(^{(1)}\) have exceeded spot power prices by 17% since the Company’s inception 12 years ago

1) Based on the Alberta baseload plants and the acquired Sundance PPA plus the uncontracted portion of Shepard Energy Centre baseload. Effective Mar/16, Sundance PPA is no longer a part of Capital Power’s baseload generation due to termination of the Sundance PPA.
Financial stability and strength
Strong balance sheet and commitment to investment grade credit ratings

<table>
<thead>
<tr>
<th>Agency</th>
<th>Ratings</th>
<th>Outlook</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;P</td>
<td>BBB- / P-3</td>
<td>Stable</td>
</tr>
<tr>
<td>DBRS</td>
<td>BBB(low) / Pfd-3 (low)</td>
<td>Stable</td>
</tr>
</tbody>
</table>

- Both DBRS and S&P have affirmed investment grade credit ratings and stable outlook
- Strong liquidity from cash flow from operations and $1B of committed sustainability-linked credit facilities to 2026
- Forecast metrics are within rating agency expectations for the current ratings with stable outlook

**S&P financial metrics**

**Adj. FFO/Debt**

- 2020: 10%
- 2021T: 15%

**Adj. Debt/EBITDA**

- 2020: 3.0
- 2021T: 3.5

**DBRS financial metrics**

**Adj. Cash flow/Debt**

- 2020: 25%
- 2021T: 30%

**Adj. EBITDA/Interest**

- 2020: 6.0
- 2021T: 7.0

1) Cash flow and adjusted EBITDA amounts include off-coal compensation.
2) Based on S&P’s weighted average ratings methodology.
3) 2021T means 2021 target.
Debt maturity profile\(^{(1)}\)

Well spread-out debt maturities supported by long asset lives

- Longer term debt reflects increased confidence in Capital Power’s business profile
- Strong liquidity from cash flow from operations, cash-on-hand, and $1B of sustainability-linked credit facilities committed to 2026\(^{(1)}\)

1) Debt amounts as of Q2/21 financial disclosure. Schedule excludes non-recourse debt, credit facility debt, and tax-equity financing.
2) Subject to satisfying closing conditions, expected to fund on October 28, 2021.
Capital deployed to renewables and repowering provide significant financial contributions in 2022+

($M)

- **2021**: 263
  - Sustaining capex: 306
  - Enhancement & GPS capex: 34
  - Other committed capital: 85
  - Genesee repower: 0

- **2022**: 340
  - Sustaining capex: 210
  - Enhancement & GPS capex: 50
  - Other committed capital: 100
  - Genesee repower: 0

- **2023**: 367
  - Sustaining capex: 5
  - Enhancement & GPS capex: 50
  - Other committed capital: 55
  - Genesee repower: 0

- **2024**: 27
  - Sustaining capex: 0
  - Enhancement & GPS capex: 27
  - Other committed capital: 0
  - Genesee repower: 0

- **2025**: 120
  - Sustaining capex: 0
  - Enhancement & GPS capex: 120
  - Other committed capital: 0
  - Genesee repower: 0

1) Includes net capex after Tax Equity Investor contributions.
Cash flow and financing outlook
Positive cash position and credit facilities to fund growth projects in 2021

Expected Sources

- DRIP reinvestment $70 M
- Cash / credit facilities $325 M
- FFO & off-coal compensation $650 M
- Capital markets / debt refinancing / asset recycling $510 M

$1.6 B

Expected Uses

- Committed growth / enhancement capex $740 M
- Dividends $300 M
- Debt repayments $430 M
- Sustaining & maint. capex $85 M

$1.6 B

1) Funds from operations (FFO) is a non-GAAP financial measure.
2) Includes principal payments on finance lease payables but excludes debt repayments to tax equity investor and equity accounted investment.
3) Includes preferred and common dividends and preferred dividend tax.
Non-GAAP financial measures

The Company uses (i) earnings before net finance expense, income tax expense, depreciation and amortization, impairments, foreign exchange gains or losses, finance expense and depreciation expense from its joint venture interests, gains or losses on disposals and unrealized changes in fair value of commodity derivatives and emission credits (adjusted EBITDA), (ii) adjusted funds from operations (AFFO), (iii) AFFO per share, (iv) normalized earnings attributable to common shareholders, and (v) normalized earnings per share as financial performance measures.

These terms are not defined financial measures according to GAAP and do not have standardized meanings prescribed by GAAP and, therefore, are unlikely to be comparable to similar measures used by other enterprises. These measures should not be considered alternatives to net income, net income attributable to shareholders of the Company, net cash flows from operating activities or other measures of financial performance calculated in accordance with GAAP. Rather, these measures are provided to complement GAAP measures in the analysis of the Company’s results of operations from management’s perspective.

Reconciliations of these non-GAAP financial measures are disclosed in the Company’s Management’s Discussion and Analysis prepared as of July 29, 2021 for the second quarter of 2021, which is available under the Company’s profile on SEDAR at SEDAR.com and on the Company’s website at capitalpower.com.
Forward-looking information

Forward-looking information or statements included in this presentation are provided to inform the Company’s shareholders and potential investors about management’s assessment of Capital Power’s future plans and operations. This information may not be appropriate for other purposes. The forward-looking information in this presentation is generally identified by words such as will, anticipate, believe, plan, intend, target, and expect or similar words that suggest future outcomes.

Material forward-looking information in this presentation includes expectations regarding:

- our 2021 performance targets and current period updates to our expectations, including for facility availability, sustaining capital expenditures, adjusted funds from operations (AFFO) and adjusted EBITDA;
- our company-wide targets specific to climate-related performance, including reduction of emissions and emissions intensity, repowering of Genesee 1 and Genesee 2, completion of the Genesee Carbon Conversion Centre, commercial application of carbon conversion technologies and plans to be off coal in 2023;
- future revenues, expenses, earnings, adjusted EBITDA and AFFO;
- the future pricing of electricity and market fundamentals in existing and target markets,
- future dividend growth;
- the Company’s future cash requirements including interest and principal repayments, capital expenditures and dividends;
- the Company’s sources of funding, adequacy and availability of committed bank credit facilities and future borrowings;
- the timing and costs for development projects (including the repowering of Genesee 1 and 2, phases 2 and 3 of Whitla Wind, Strathmore Solar, Bear Branch Solar, Hornet Solar, Hunter’s Cove Solar and Enchant Solar);
- facility availability and outages;
- capital expenditures for facility maintenance and other (sustaining capital, future growth projects, commercial initiatives);
- the impact of market designs on the Company’s core markets;
- matters related to the LLR Proceeding including recovery from appropriate parties and potential impacts to the Company arising from the foregoing;
- the costs of exiting the series of agreements previously entered into pertaining to the Genesee 4 and 5 project;
- the resolution of the pricing dispute on the Buckthorn Wind offtake and commodity swaps;
- the intended use of proceeds of the common share offering;
- the intended use of proceeds and expected closing date of the U.S. private placement of senior notes; and
- the impact of the COVID-19 pandemic.

These statements are based on certain assumptions and analyses made by the Company considering its experience and perception of historical and future trends, current conditions, expected future developments, and other factors it believes are appropriate including its review of purchased businesses and assets. The material factors and assumptions used to develop these forward-looking statements relate to:

- electricity and other energy prices and carbon prices;
- performance;
- business prospects (including the need for and potential re-contracting of facilities) and opportunities including expected growth and capital projects;
- status of and impact of policy, legislation and regulations;
- effective tax rates;
- the development and performance of technology;
- foreign exchange rates;
- matters relating to the LLR Proceeding, including the recovery and timing thereof from appropriate parties; and
- other matters discussed under the Performance Overview, Outlook and Risks and Risk Management sections.

Whether actual results, performance or achievements will conform to the Company’s expectations and predictions is subject to several known and unknown risks and uncertainties which could cause actual results and experience to differ materially from the Company’s expectations. Such material risks and uncertainties are:

- changes in electricity, natural gas and carbon prices in markets in which the Company operates and the use of derivatives;
- regulatory and political environments including changes to environmental, climate, financial reporting, market structure and tax legislation;
- generation facility availability, wind capacity factor and performance including maintenance expenditures;
- ability to fund current and future capital and working capital needs;
- acquisitions and developments including timing and costs of regulatory approvals and construction;
- changes in the availability of fuel;
- ability to realize the anticipated benefits of acquisitions;
- limitations inherent in the Company’s review of acquired assets;
- changes in general economic and competitive conditions;
- changes in the performance and cost of technologies and the development of new technologies, new energy efficient products, services and programs; and
- risks and uncertainties discussed under the Risks and Risk Management section.

See Risks and Risk Management in the Company’s 2020 Integrated Annual Report and Risks and Risk Management, for further discussion of these and other risks.

Readers are cautioned not to place undue reliance on any such forward-looking statements, which speak only as of the date made. The Company does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements to reflect any change in the Company’s expectations or any change in events, conditions or circumstances on which any such statement is based, except as required by law.
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