Introducing AME

AME is an infrastructure developer with a strong track record.

Focus on Gas and LNG infrastructure, combined cycle power plants, solar PV and CSP and wind generation technologies, and other innovative technologies in the energy infrastructure space including public transport mobility and energy services

Co-owner with EDF of the 5th largest generator in Chile. 1,200 MW in CCGTS and solar PV currently operating in Chile and Peru, together with a significant development pipeline of projects including CCGT and renewable technologies

AME plans to balance its portfolio with 600 MW of additional renewable capacity by 2023
Santiago Solar: Case Study of a Metropolitan Solar Plant
Trade off – radiation vs transmission cost / risk

Santiago has extremely high radiation by world standards, even if it is 20% lower than northern Chile.
Trade off – radiation vs transmission cost / risk

CMG por Bloque (Solo Solar)

Day time prices by injection node

- Crucero - Solar
- Diego de Almagro - Solar
- Quillota - Solar

Trade off
- radiation vs transmission cost / risk
- Day time prices by injection node
Santiago Solar: A metropolitan solar project

45 km (27 miles) north of Santiago
Timeline

**MAY 2014**
First Community Meeting

**DECEMBER 2014**
Award PPA to distribution companies

**DECEMBER 2015**
EPC Agreement Signed

**SEPTEMBER 2016**
Financial Close

**JANUARY 2017**
Start of PPAs

**DECEMBER 2017**
Connection to grid

**APRIL 2014**
Land agreement

**AUGUST 2014**
Start of Environmental Study

**JUNE 2015**
Environmental Impact Study Filed

**JULY 2016**
Environmental approval

**DECEMBER 2016**
EPC’s Notice to proceed issued

**MAY 2017**
Start of works on site
Santiago Solar site (pre-build)
Til-til is an area of Santiago which has experienced significant levels of conflict between citizens and businesses in recent years.
Meaningful and genuine dialogue with the community

- Respectful and genuine consultation
- Real changes made to project design to adjust to community concerns
- Contributions designed to be relevant to the project and address real needs
Timeline

**DECEMBER 2014**
Award PPA to distribution companies

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Financial Close

**JANUARY 2017**
Start of PPAs

**DECEMBER 2017**
Connection to grid

**APRIL 2014**
Land agreement

**AUGUST 2014**
Start of Environmental Study

**JUNE 2015**
Environmental Impact Study Filed

**JULY 2016**
Environmental approval

**DECEMBER 2016**
EPC’s Notice to proceed issued

**MAY 2017**
Start of works on site
In the 2014 tender process, Santiago Solar presented the lowest adjudicated offer, winning with a price of US$79.88/ MWh.
Timeline

- **AUGUST 2014**: Start of Environmental Study
- **JUNE 2015**: Environmental Impact Study Filed
- **JULY 2016**: Environmental approval
- **DECEMBER 2014**: Award PPA to distribution companies
- **DECEMBER 2015**: EPC Agreement Signed
- **SEPTEMBER 2016**: Financial Close
- **JANUARY 2017**: Start of PPAs
- **DECEMBER 2017**: Connection to grid

- **APRIL 2014**: Land agreement
- **MAY 2014**: First Community Meeting
- **MAY 2017**: Start of works on site
Santiago Solar site (pre-build)
Santiago Solar site (pre-build)
Santiago Solar site (pre-build)
125 ha
agricultural land improved
(310 acres)

145 ha
reforested with native species
(360 acres)
Timeline

**May 2014**
First Community Meeting

**December 2014**
Award PPA to distribution companies

**December 2015**
EPC Agreement Signed

**September 2016**
Financial Close

**January 2017**
Start of PPAs

**December 2017**
Connection to grid

**April 2014**
Land agreement

**August 2014**
Start of Environmental Study

**June 2015**
Environmental Impact Study Filed

**July 2016**
Environmental approval

**December 2016**
EPC’s Notice to proceed issued

**May 2017**
Start of works on site
Regulated client withdrawals real / projected 2010 - 2025
Marginal Prices in the SIC / SEN 2010 – 2019
Marginal Prices in the SIC / SEN 2010 – 2019
Timeline

- **MAY 2014**: First Community Meeting
- **DECEMBER 2014**: Award PPA to distribution companies
- **DECEMBER 2015**: EPC Agreement Signed
- **SEPTEMBER 2016**: Financial Close
- **JANUARY 2017**: Start of PPAs
- **DECEMBER 2017**: Connection to grid

- **APRIL 2014**: Land agreement
- **AUGUST 2014**: Start of Environmental Study
- **JUNE 2015**: Environmental Impact Study Filed
- **JULY 2016**: Environmental approval
- **DECEMBER 2016**: EPC’s Notice to proceed issued
- **MAY 2017**: Start of works on site
Timeline

MAY 2014
First Community Meeting

DECEMBER 2014
Award PPA to distribution companies

DECEMBER 2015
EPC Agreement Signed

SEPTEMBER 2016
Financial Close

JANUARY 2017
Start of PPAs

DECEMBER 2017
Connection to grid

APRIL 2014
Land agreement

AUGUST 2014
Start of Environmental Study

JUNE 2015
Environmental Impact Study Filed

JULY 2016
Environmental approval

DECEMBER 2016
EPC’s Notice to proceed issued

MAY 2017
Start of works on site
Timeline

MAY 2014
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Start of PPAs

DECEMBER 2017
Connection to grid

APRIL 2014
Land agreement

AUGUST 2014
Start of Environmental Study

JUNE 2015
Environmental Impact Study Filed

JULY 2016
Environmental approval

DECEMBER 2016
EPCs Notice to proceed issued

MAY 2017
Start of works on site
26M CELLS
47 INVERTERS
360K PV MODULES
200 HECTARES
CAPACITY 114.5 MWdc - 98 MWac
EQUIVALENT TO CONSUMPTION OF 100K* HOMES
INVESTMENT: US$125M
ENERGY PRODUCED: 200 GWh/year
REVENUE: US$15M
CONNECTED TO CHILEAN SYSTEM IN DECEMBER 2017

* Based on average home consumption of 1.785 kWh/y (Obrecht, 2016)
Award winning approach

Winner of the Association of Generators’ “Good Practices Contest for a more Sustainable Electric Future, 2018

Women of the Year Award, 2017, Ministry of Energy

Outstanding results in the Project Acceptance Index for large scale renewable energy projects, Ministry of Energy and German GIZ

Winner of Latin American Green Awards 2019
“Oasification; Forest Solutions for Desertification”
A few words about the greenhouse…
Thank you