



Solar Energy in Latin America: Today and Tomorrow



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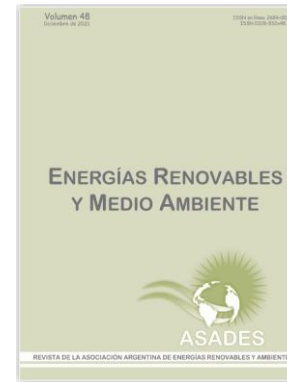


Argentinian Association of Renewables Energies and Environment

1. **Environmentally conscious architecture and habitat**
2. **Solar energy: thermal, agricultural, chemical, and industrial applications**
3. **Solar energy: photovoltaic conversion**
4. **Wind, geothermal, tidal, hydraulic, biomass, and biogas energy**
5. **Efficient and rational use of energy**
6. **Technologies associated with renewable energies**
7. **Solar radiation and climate**
8. **Renewable energies, society, and environment**
9. **Energy storage systems**



PROCEEDINGS



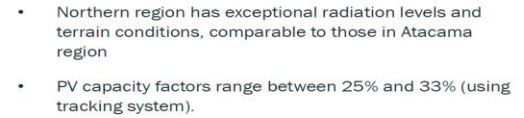
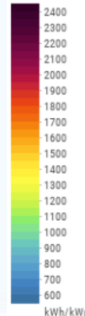
ERMA



AVERMA



Let's meet in Salto-Uruguay, next year!



Country	Percentage
MEX	34%
CHL	31%
ARG	33%
BRA	25%
PER	20%
UGY	20%
GER	17%
CHI	15%
JPN	12%



Solar energy developments in Argentina

Some key features

- ✓ Argentina installed **307 MW of new PV capacity in 2024**, according to reports from energy market operator CAMMESA.
- ✓ The country's total installed PV capacity reached **1673 MW by the end of December 2024**.
- ✓ **Distributed generation added 28 MW last year**, bringing the total to 58.9 MW from 2290 generating units, with the commercial-industrial segment accounting for 78.1%, according to the Ministry of Energy.
- ✓ Argentina's **total installed capacity stands at 43351 MW**, with thermal power making up 58%
- ✓ The Argentine **Northwest-NOA** leads in installed solar capacity with **850 MW**, followed by **Cuyo (565 MW)**, the Argentine **Northeast-NEA (130 MW)**, **Centro (118 MW)**, and **Comahue (10 MW)**.
- ✓ There are no CSP power plants in Argentina, only a few research projects in small prototype designs.



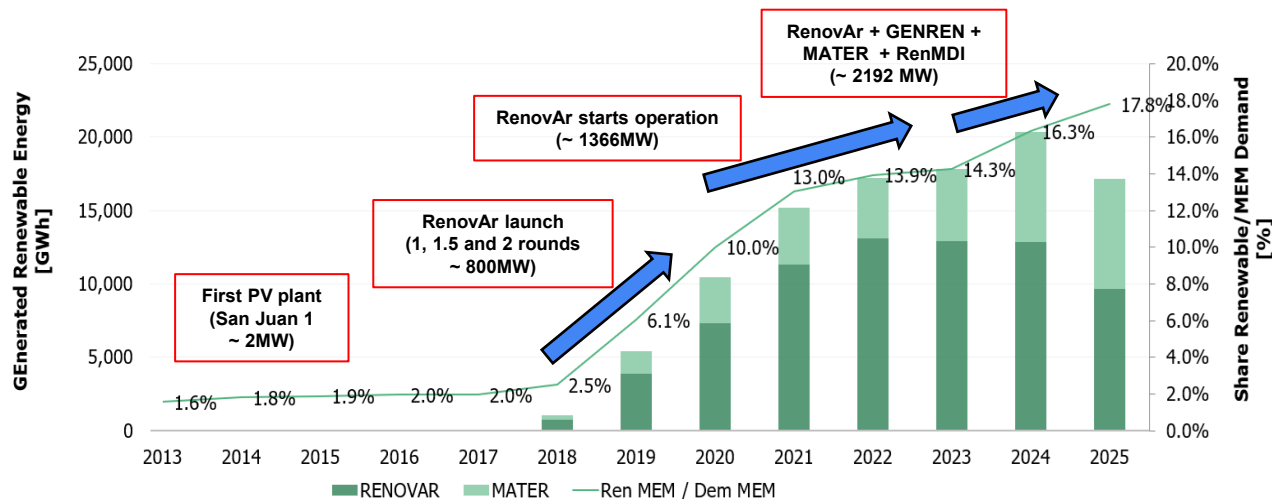


Renewable Energy Policies

Law 26190 (Replaced by 27191): RENOVAR: National Promotion Regime for the Use of Renewable Energy Sources to Produce Electric Energy.

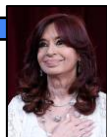
Resolution 281-E/2017: MATER: Renewable Energy Term Market Regime for Electric Power (Approbation)

Law 27.424: GENREN: Promotion Regime for Distributed Renewable Energy Generation Integrated into the Public Electric Grid.



- ❑ Objectives of Law 27.191 (2015) end in 2025: target of 20% renewables in electricity.
- ❑ FODER's cashflow and incentive programs discontinued.
- ❑ Uncertainty about the continuity of certain incentives if Law is not renewed.

2011
<1MW





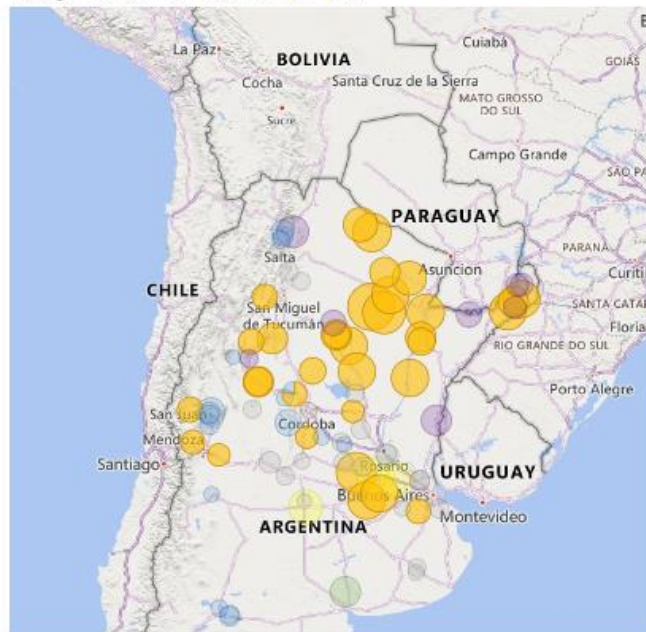
Renewable Energy Policies

National and International Open Call “RenMDI” - Renewable Electric Power Supply Contracts with CAMMESA

(SE Resolution No. 36/2023 of January 31, 2023)

MW Adjudicados por Proyecto y Tecnología

Tecnología ☐ BG ☐ BM ☐ BRS ☐ EOLA ☐ PAH ☐ SPV ☐ SFVA



Select all	RENGLÓN 1	RENGLÓN 2
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[MW]	[u\$/MWh]	Cantidad
449.58	70.7	41
MW Adjudicados	Precio Medio	Proyectos
[u\$/MWh]	[%]	[u\$/MWh]
96.0	73.6 %	94.8
Precio Max	P Ofer / P Max	Valor Sustitución
		24.2
		Diferencia Costos

Provincia
All

Tecnología Descripción
All

Calificación Nodo
All

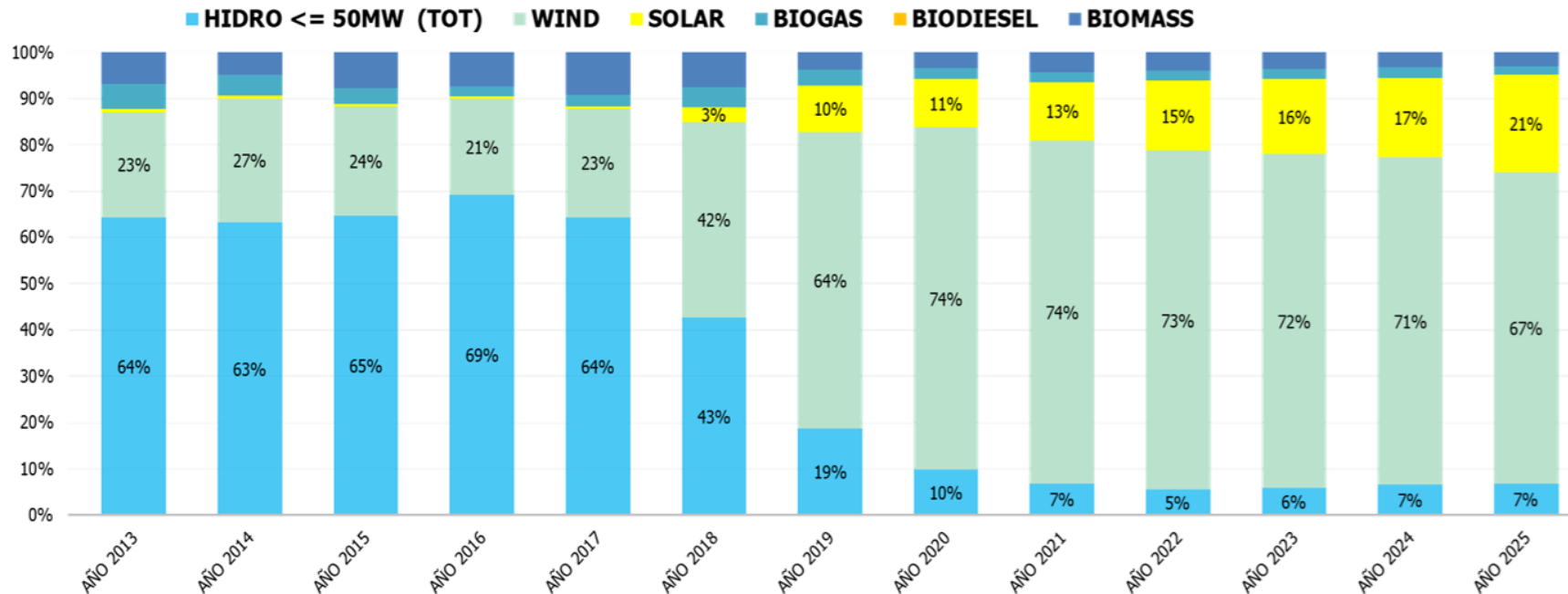
Nombre del Proyecto	Tecnología	MW Adjudicados	Precio Med
PS VILLA MARIA - EPEC	SPV	3.00	77.0
PS VILLA ÁNGELA IV - ER LAS LOMAS	SPV	11.00	56.8
PS VILLA ÁNGELA III - ER LAS LOMAS	SPV	10.00	64.8
PS VILLA ÁNGELA II - ER LAS LOMAS	SPV	9.00	74.8
PS VENADO TUERTO 6 - CORAL	SPV	5.00	70.2
PS VENADO TUERTO 4 - CORAL	SPV	20.00	57.3
PS USPALLATA - ANDINA ELECTRICIDAD	SPV	4.00	79.5
Total		449.58	70.7





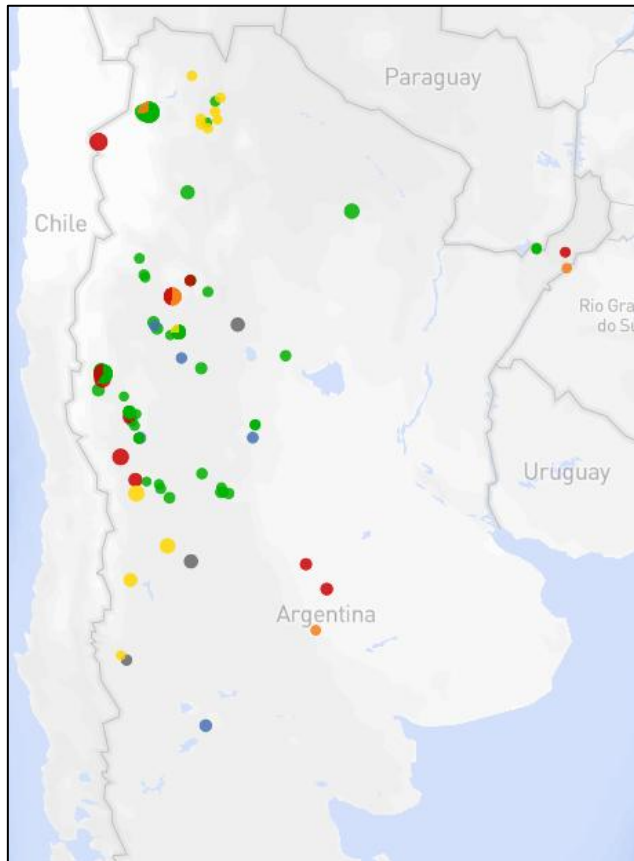
Renewable energy share – by source

2013 - September 2025





PV Projects distribution



Global Energy Monitor

<input checked="" type="checkbox"/>	Operating	55
<input checked="" type="checkbox"/>	Announced	16
<input checked="" type="checkbox"/>	Construction	12
<input checked="" type="checkbox"/>	Pre-Construction	5
<input checked="" type="checkbox"/>	Mothballed	0
<input checked="" type="checkbox"/>	Shelved	5
<input checked="" type="checkbox"/>	Cancelled	3
<input type="checkbox"/>	Retired	0

Technology Type

[select all section](#) | [clear all section](#)

<input checked="" type="checkbox"/>	Solar Thermal	0
<input checked="" type="checkbox"/>	PV	93
<input checked="" type="checkbox"/>	Assumed PV	3

MAXIMUM (MW) 410

MINIMUM (MW) 1

[select all](#) | [clear all](#)



PV Projects distribution



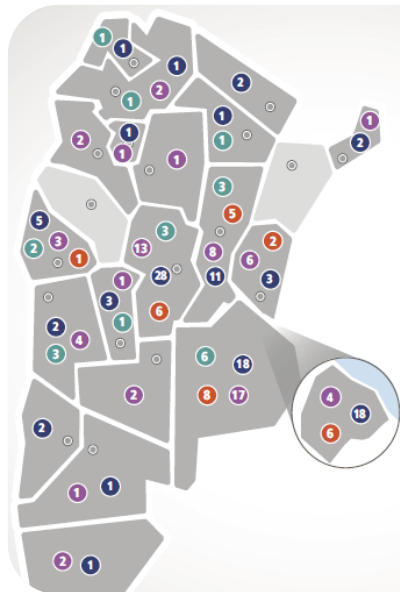


Solar thermal installed capacity

Solar thermal census (2020)



Ministerio de
Desarrollo Productivo
Argentina



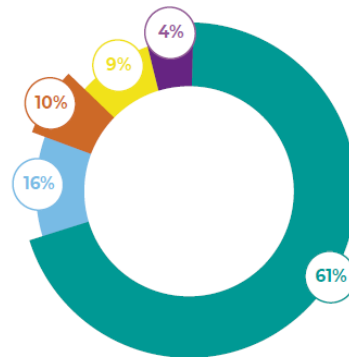
217 Empresas censadas

100 Empresas de servicios

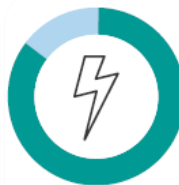
21 Empresas fabricantes

28 Empresas importadoras

68 Empresas de distribución



- Agua caliente sanitaria domiciliaria
- Calefacción
- Procesos industriales
- Climatización de piscinas
- Espacios de uso comercial



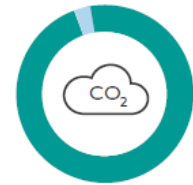
68 MWth
potencia instalada



68 GWh/a
energía generada



7367 t_{oil}/a
ahorro energético



23781 t_{CO2}/a
reducción de emisiones



Challenges and opportunities

- **Regulatory Uncertainty:** The expiration in 2025 of Law 27.191's fiscal incentives creates concern among investors and financiers, potentially raising project risk premiums.
- **Transmission Constraints:** The rapid addition of renewable capacity challenges the grid's ability to integrate new MWs, requiring investment in transmission and energy storage to manage peak-hour curtailment.
- **Financing Challenges:** Macroeconomic volatility and limited access to foreign currency or credit complicate equipment imports and project debt structuring – a long-standing issue in large-scale infrastructure.
- **MATER Market (Corporate PPAs):** Enables project financing through direct corporate power purchase agreements, reducing dependency on government-backed regimes.
- **RIGI Framework:** If extended to renewables, it could unlock large-scale capital inflows for qualified “strategic projects”
- **Local Value Chains:** Emerging initiatives in solar panel manufacturing (San Juan) and solar thermal technology (PRODIST) foster industrial development and local job creation.

Argentina faces structural difficulties but also has immense potential in renewable resources and human capital. The energy transition requires policy continuity, regional integration and international cooperation.



Thanks!
¡Muito obrigado!
¡Muchas gracias!



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