

New Caledonia: Evolution of renewable energy

COTSUEL

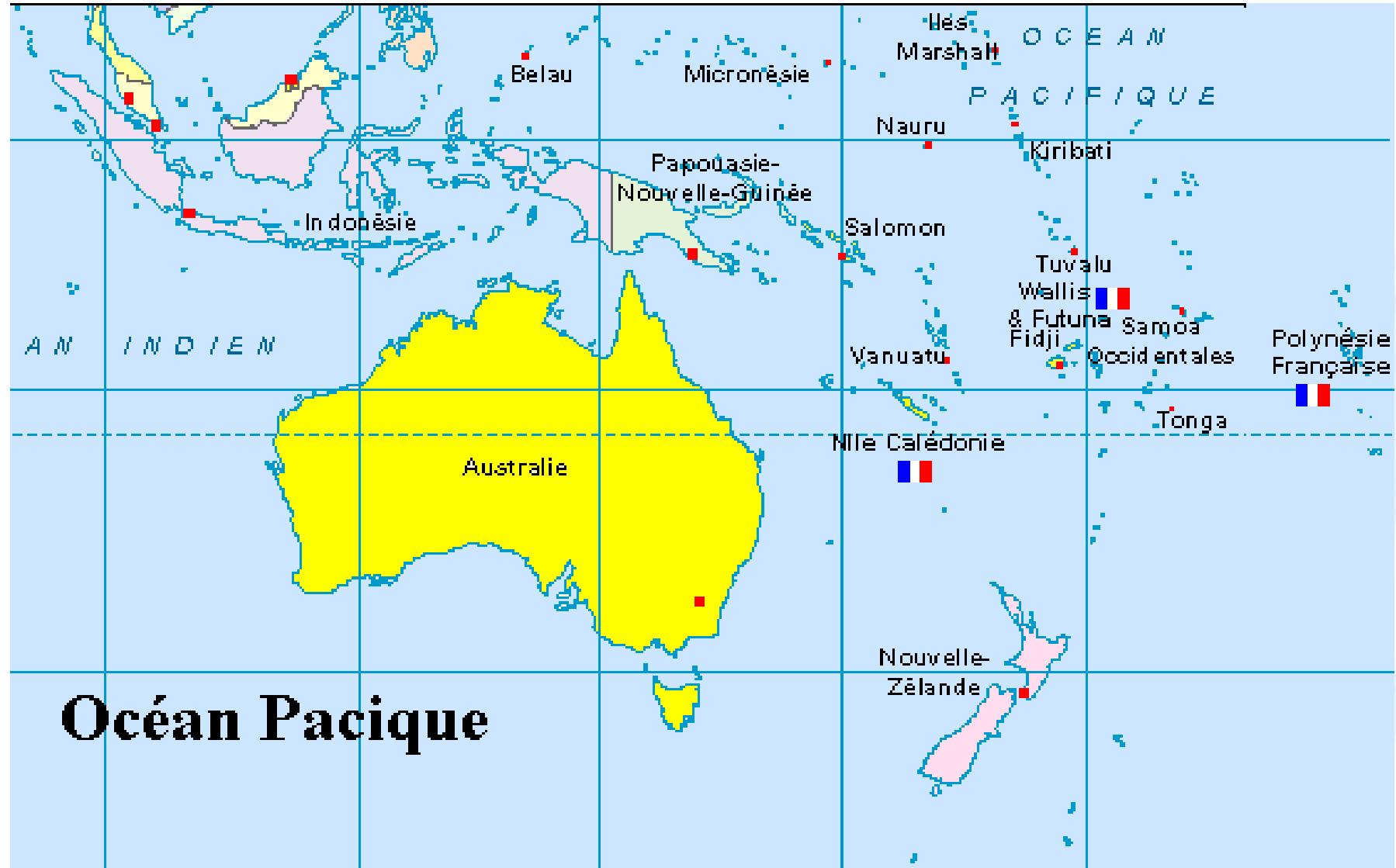
Symposium Fisuel – Liban – 30 Avril & 2 MAI 2019

Fisuel Symposium – Lebanon – 30th of April & 2nd of MAY 2019



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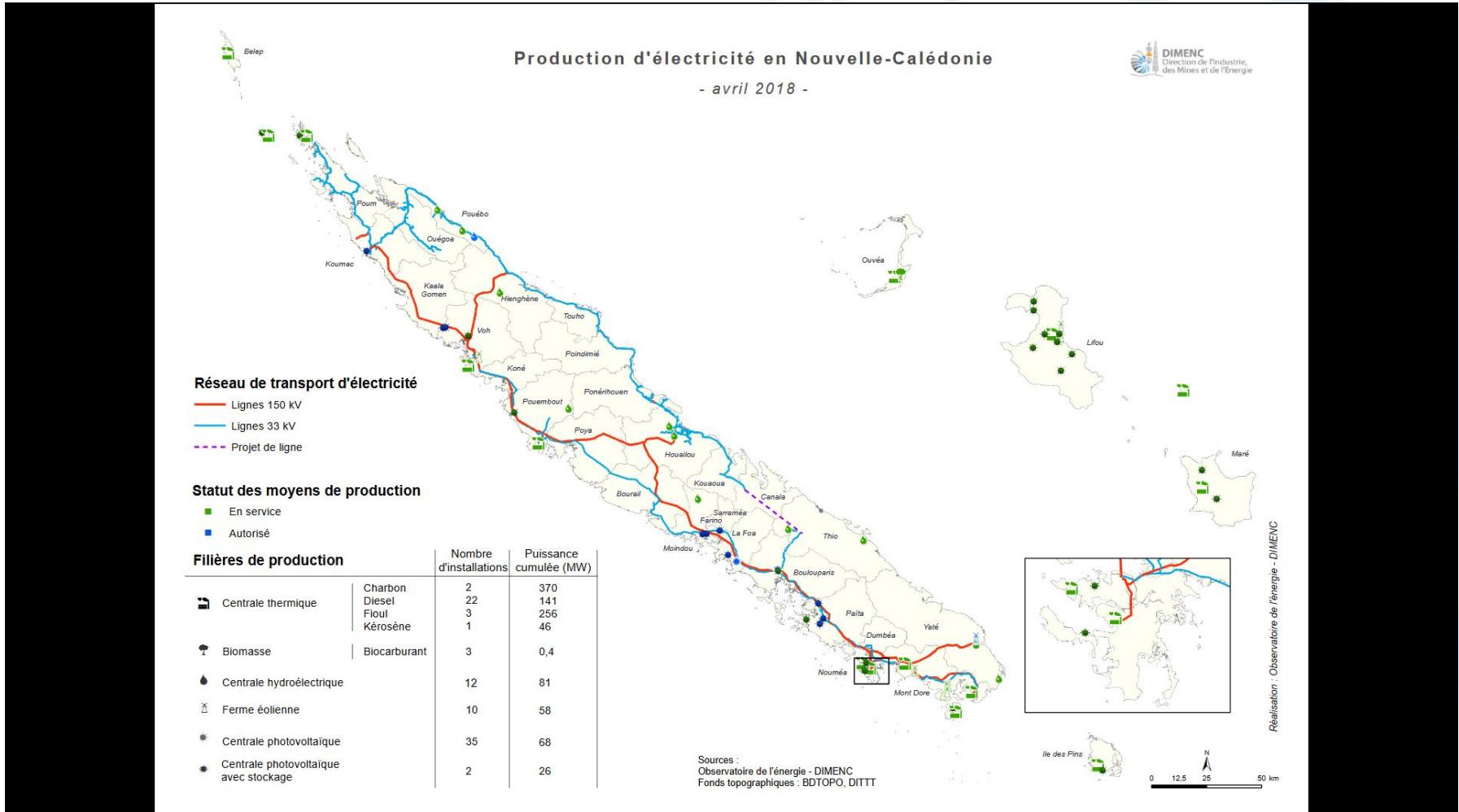


Océan Pacifique

Objective

- New Caledonia has made an energy transition scheme
- By 2030, all public distribution (purchased power <40kVA) must be made with renewable energy, approximately 40% of total consumption
- If the progression remains the same : 2021 → 66%
- Create a great communication plan for energy efficiency (reduction of consumption).

Installed Power in 2018



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Segmentation of the electricity production in New Caledonia

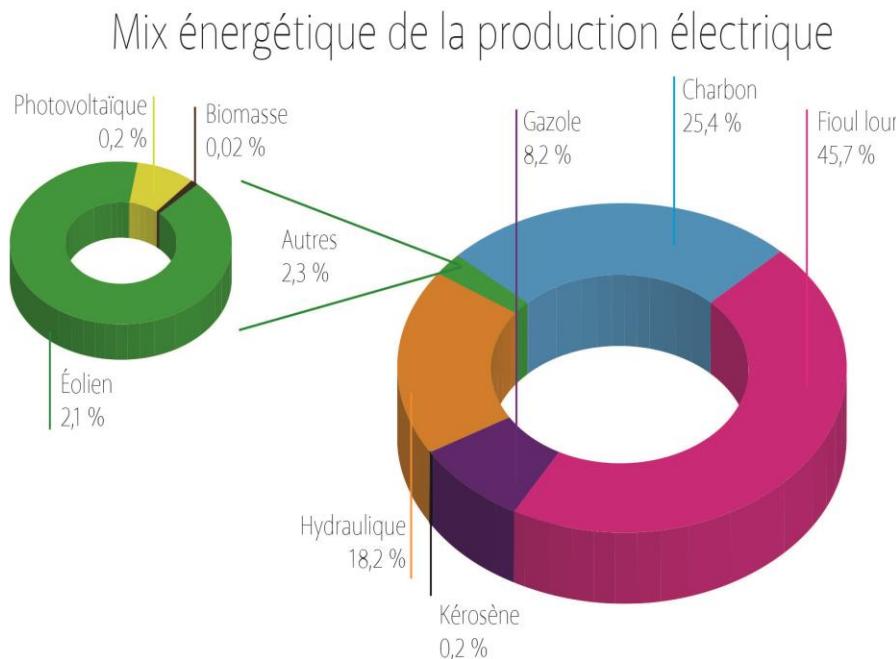
Installed power: 1046 MW interconnected

- Thermal: 813 MW (77.7%)
- Hydraulics: 81 MW (7.8%)
- Wind power: 58 MW (5.5%)
- Photovoltaic: 56 MW + 26 MW with battery (9%)

Then a segmentation of the installed power:

- Fossil energy: 77.7%
- Renewable energy: 22.3%

Total Production in 2017



- Fossil Energy: 79.5%
- Renewable energy: 20.5%

Decisions:

The government of New Caledonia decided to promote photovoltaic systems :

- connected to the grid for individuals

Decree of December 1st, 2015

- connected to the grid for professionals ($P < 40\text{kVA}$)

Decree of May 24th, 2016

- connected to the grid for residential building

Decree of February 27th , 2018

- connected to the grid for power between 36kVA and 250 kVA

Decree of May 29th , 2018

For individuals and residential building:

reference to the French standards NF C 15 100 and UTE C 15-712-1

- Promote “auto-consumption”
- Establish of a feed-in tariff (2/3 of the sale price)

Obligation:

- Limit the power of the PV system to the contracted power
- Obtain authorization to operate, validated by the government
- Obtain a certificate of conformity under COTSUEL
- Be connected to a double meaning counter.

Certificate of Conformity

Decree of December 1st, 2015 and decree of February 27th ,2018

- Obligation of the certificate of conformity
- Established and signed by the author of the work
- Signed by COTSUEL
- Allows the putting in service the PV system.

Control Process

- The author of the work buys a form to COTSUEL, completes the file and sends it, 20 days before the end of the work
- COTSUEL systematically inspects and signed the certificate
- The concerned energy distributor implements the contract specifying the particular specification.

For Professionals ($P < 40\text{kVA}$)*

reference to the French standards NF C 15-100 and UTE C 15-712-1

- Promote “auto-consumption”
- Establish of a feed-in tariff equal to the selling price

* Beyond 40 kVA sales rates are adapted to the client's situation and often below the proposed feed-in tariff

Obligation:

- Limit the power of the PV system to the contracted power, in the limit of 40kVA
- Obtain authorization to operate, validated by the government
- Obtain a certificate of conformity under COTSUEL
- Be connected to a double meaning counter.

Certificate of conformity:

decree May 24th , 2016

- Obligation of the certificate of conformity
- Established and signed by the author of the work
- Signed by COTSUEL
- Allows the putting in service the PV system

Control Process

- Certified inspector systematically inspects.
- The author of the work buys a form to COTSUEL, completes the file and sends it at COTSUEL
- COTSUEL signed the certificate
- The concerned energy distributor implements the contract specifying the particular specification.

For power between 36kVA and 250 kVA

reference to the French standards NF C 15-100 and UTE C 15-712-1

- “auto-consumption” or “total resale”
- Establish of a fixed feed-in tariff, the selling price adapted to the customer’s situation

Obligation:

- Obtain authorization to operate, validated by the government
- Obtain a certificate of conformity under COTSUEL
- Be connected to a double meaning counter.

Certificate of conformity:

decree May 29th , 2018

- Obligation of the certificate of conformity
- Established and signed by the author of the work
- Signed by COTSUEL
- Allows the putting in service the PV system

Control Process

- Certified inspector systematically inspects.
- The author of the work buys a form to COTSUEL, completes the file and sends it at COTSUEL
- COTSUEL signed the certificate
- The concerned energy distributor implements the contract specifying the particular specification.

Controls

- Individuals and residential building:
 - Control : COTSUEL
 - Sign by : COTSUEL

- Professionals and $36 \text{ kVA} < P < 250 \text{ kVA}$:
 - Control : Certified inspector
 - Sign by : COTSUEL

Some data as of december 31, 2018

(3 years feed-back)

Individuals and collective housing :

- Installed power : 5.4 MVA

Professionals and $36 \text{ kVA} < P < 250 \text{ kVA}$:

- Installed power : 2.4 MVA

THANK YOU

MERCI

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fisuel