



International Partnership
for Hydrogen and Fuel Cells
in the Economy

France Update

36th IPHE Steering Committee Meeting

16 – 17 November 2021

Virtual Meeting

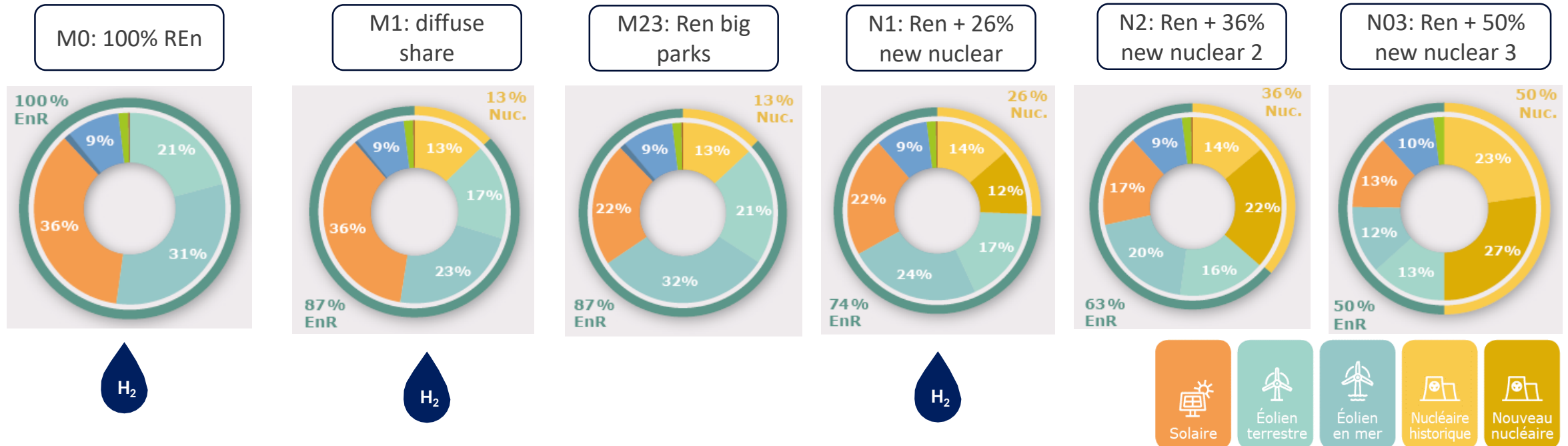
Hydrogen, the second major objective of the France 2030 Plan

- President Macron presented a €34 bn investment plan divided into 10 major orientations to better understand, better live and better produce in France by 2030.
- **Decarbonised energy is targeted as the major objective** of the plan, the renewables and nuclear power are at the core
- **Decarbonised hydrogen is the second major objective** to decarbonise the industry and heavy duty mobility, along with energy efficiency and direct electrification
- France sets out the goal for **two giga factories of electrolysers** in order to massively produce decarbonised hydrogen by 2030, using power from the grid.
- Hydrogen valleys model remains on the top of the agenda - production as close as possible to usages
- Budget for decarbonised hydrogen increased by €1.9 bn

Announcements / New Initiatives *France*



RTE's, French electricity TSO, six scenarii for its Energy Futures 2050



RTE anticipates several degrees of integration of a "low-carbon hydrogen system" combining hydrogen production, storage and transport, notably as a **means of flexibility** essential to the M0, M1, M23 and N1 scenarii from 2040.



France – Profile November 2021

Status of Deployments

- ✓ Electrolysers: 5 MW
- ✓ FCEVs: 382
- ✓ FC Bus : 26
- ✓ Forklifts: 322
- ✓ HRS: 38 for vehicles
9 for bikes

Leading Government Initiatives

- ✓ National Hydrogen Strategy
- ✓ Important Project of Common European Interest
- ✓ Multi-annual Energy Plan (2019-2028)
- ✓ Energy-Climate law
- ✓ Sectorial Strategic Contracts between State and Industry

Goals or Focus Areas

3 main priorities:

- 1/ Industrial decarbonisation
- 2/ Clean H2 for heavy duty transport application
- 3/ Support Research, Innovation & know-how dvpt for tomorrow's usages

Deployment Goals

By 2028

- Vehicles: 20,000 – 50,000
- FC Bus and trucks: 800 - 2,000
- HRS: 400 - 1,000
- 20-40% of decarbonised H2
- 6.5 GW of electrolysers by 2030

Funding

€9.1 bn for 2021-2030
(with €3.4 bn for 2021-2023)

Thank you



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