

A futuristic landscape featuring a large white cylindrical hydrogen storage tank with a blue cap and the text "Hydrogen H₂" on its side. To the left is a smaller white tank with a blue cap and "H₂" written on it. In the background, three wind turbines with white towers and blades are visible against a clear blue sky. To the right, a row of blue solar panels is mounted on a white structure. The foreground shows a concrete platform and some green grass.

Introduction

Welcome @ Essent

OUR HISTORY GOES BACK MORE THAN 100 YEARS



1909 - 1914

At the beginning of the 20th century, the legal predecessors of Essent were established. PLEM, NV Elektriciteitsfabriek IJsselcentrale, Provinciaal Elektriciteitsbedrijf Groningen, PNEM.



1993 - 1997

Mergers create energy companies EDON (1993) and PNEM/MEGA Group (1997).



1999

In 1999, EDON and PNEM/Mega Group merged into a new company: Essent.



2009

With the introduction of the Independent Management Act (demerger law), Essent's network business (Enexis) was separated from its commercial activities. In October 2009, the Dutch governments sold Essent to the German energy group RWE.

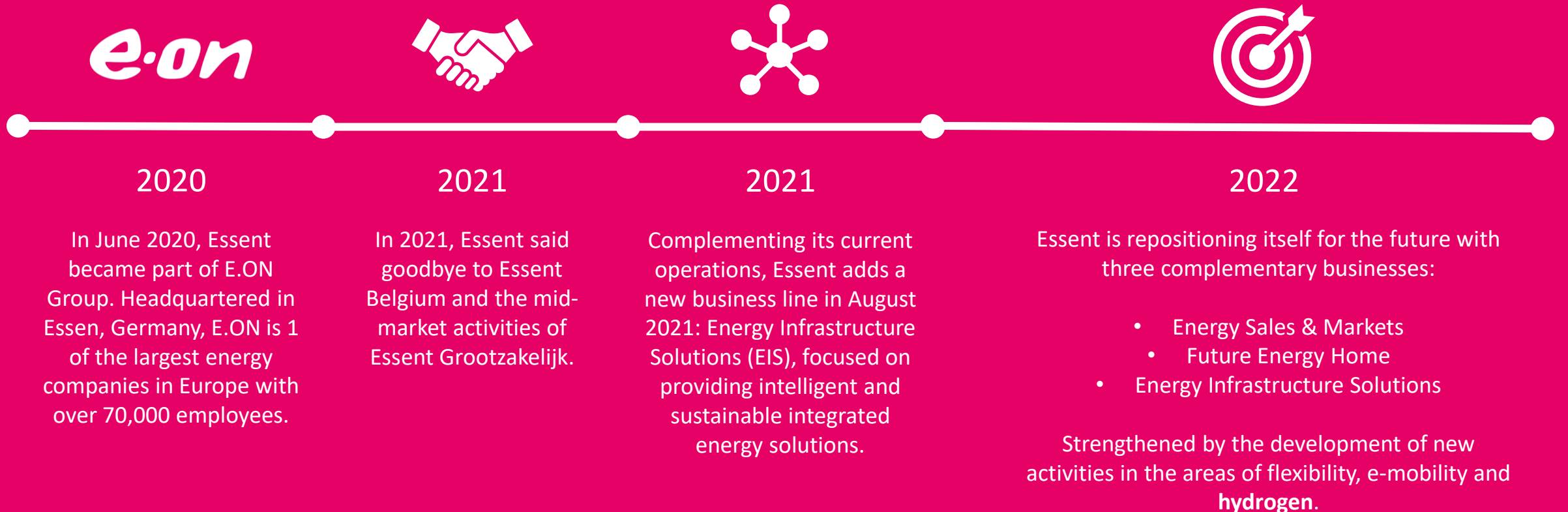


2016 - 2019

RWE founded a new future-oriented company: innogy. Essent became part of innogy. In 2019, the German energy company E.ON acquired innogy from RWE and thus became the new parent company of Essent.

essent

SINCE 2020 ESSENT IS PART OF E.ON



Wij zijn actief op drie complementaire domeinen en focussen ons **essent** daarnaast op de ontwikkeling van nieuwe business



ENERGY SALES & MARKETS

Met vier sterke merken onder één dak leveren we groene stroom en gas leveren aan meer dan 2,5 miljoen klanten.



FUTURE ENERGY HOME

Met onze 12 Service Partners helpen wij onze klanten met hun energietransitie door het aanbieden van duurzame producten en diensten, van advies tot installatie en onderhoud.



ENERGY INFRASTRUCTURE SOLUTIONS

Met EIS bieden we geïntegreerde, 100% duurzame en digitale oplossingen op het gebied van verwarming, koeling, opslag, elektriciteit, waterstof en energie-efficiëntie.

Together with E.ON, Essent is the trusted partner in the energy transition

Essent

Essent helps everyone take the next step in energy with its activities in three complementary business areas:

- Energy Sales & Markets
- Future Energy Home
- Energy Infrastructure Solutions

Essent is also working hard on new initiatives in the areas of flexibility, e-mobility and **hydrogen**.



The largest energy supplier in the Netherlands with ~3m customers



Delivers ~30 TWh of gas and electricity annually through its consumer brands



Extensive experience in the greenhouse and horticultural industry through Powerhouse



72.000
employees

15
countries



E.ON

In addition to being Europe's largest energy supplier, E.ON is also Europe's largest network operator, developing a strong foundation for the new energy world.

New initiatives such as **hydrogen** are also being worked on internationally. Within E.ON there are currently around 50 hydrogen projects in various stages, including local projects, but also large-scale imports from Australia, among others.



Europe's largest energy supplier with ~51m customers



Delivers ~900 TWh of gas and electricity annually



Largest European network operator with 1.6m km of infrastructure and 800k connected assets

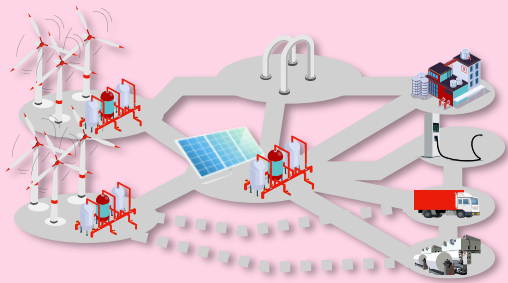


Hydrogen

H₂ at Essent

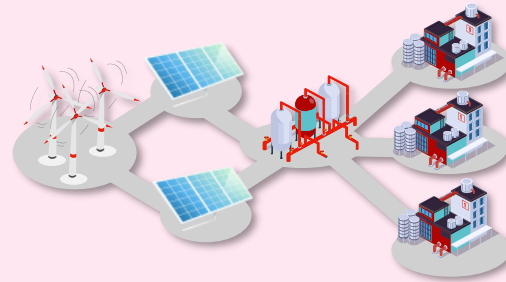
Essent to take on role as H₂ commodity supplier and solutions provider to help customers in their hydrogen transition

1. Large-scale imports



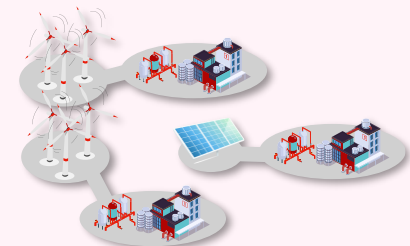
E.ON has signed the first MoUs for importing green hydrogen on a large scale to meet future hydrogen needs.

2. Local production

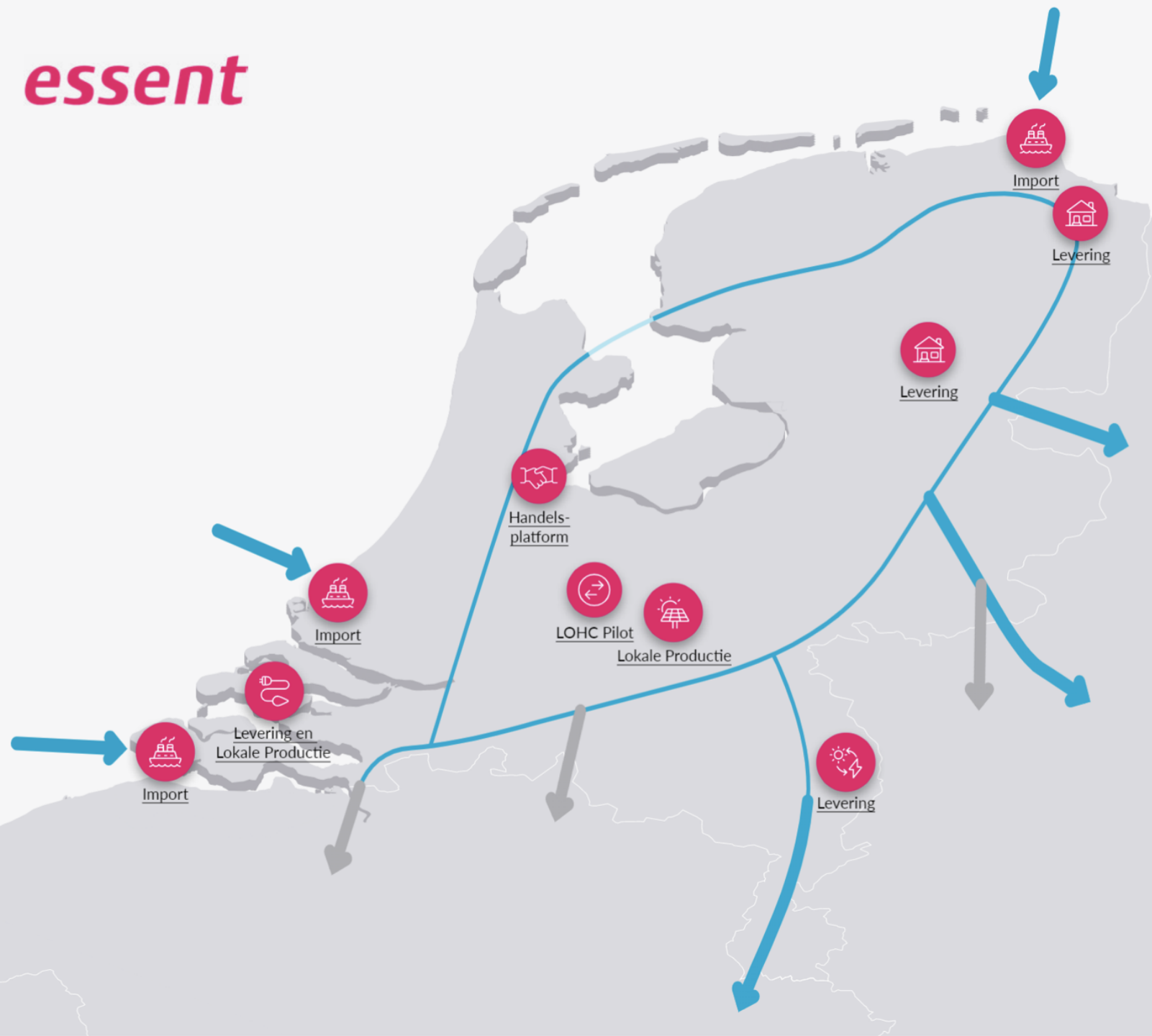


Small-scale local hydrogen production for delivery to nearby offtakers.

3. On-site solutions










Solutions to help customers transition to hydrogen, for example by installing a fuel cell or with on-site production.



ONZE WATERSTOF ACTIVITEITEN

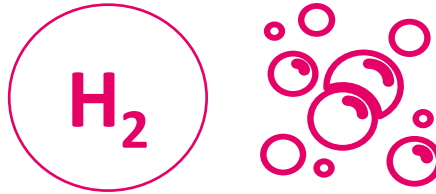
Essent werkt aan de productie, levering en toepassing van groene waterstof in Nederland. Voor industrie, midden en klein bedrijf en in de gebouwde omgeving. Via concrete projecten realiseren we zo de energietransitie.

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Lokale productie
 Lokale productie van waterstof via electrolyzers. Gekoppeld aan lokale zon en windparken. Levering van waterstof aan lokale gebruikers (industrie of transport sector).
- 
Levering
 Levering van grote hoeveelheden waterstof via bijmenging in het Nederlandse gasnet.
- 
LOHC Pilot
 Pilot om te testen hoe waterstof (lokaal) vervoerd kan worden, bijvoorbeeld via LOHC.
- 
Levering
 Levering van waterstof aan eindgebruikers, bijvoorbeeld aan de glastuinbouwsector, die via een brandstofcel waterstof omzetten in elektriciteit en warmte, ter vervanging van aardgas gebruik.
- 
Levering
 Pilot om waterstof aan consumenten klanten te leveren. Essent test de rol van energieleveranciers en levert en onderhoudt via haar installatie partner Energiewacht de waterstof boilers bij klanten thuis.
- 
Import
 Import van grote hoeveelheden waterstof uit o.a. Australië, aangeleverd in Europese havens. Vervoerd als ammonia. Opslag, conversie in havens.
- 
Handelsplatform
 Pilot met marktpartijen voor de certificering van (groene) waterstof en de opzet van een handelsplatform.

As Energy supplier we own the security of supply for consumers, and support them in a seamless transition

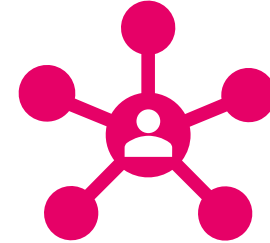


Service (call, mail,
online, post),
Metering, Invoicing



Procurement, security
of Supply

Moving to scale;
portfolio balancing

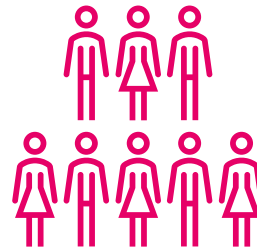


Switch process &
market communications

Learning effect of build environment project is significant



Need to create a full value chain: Production, supply chain, fine grid distribution, consumption



Need to manage diversity while still coming to consolidated solutions; cannot diversify gas in grid per household



Need to work & solve challenges with broad range of partners: You create the network you need when business will scale up more

CONTACT



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