



Statens vegvesen

Action plan for zero emission construction sites

The Norwegian Public Roads Administration

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10 500
km national roads



5 600
bridges on
national roads



600
Tunnels on
national roads



72
Driver and Vehicle
Licensing Offices



4 770
Employees (FTEs)



52,6
billion (NOK)



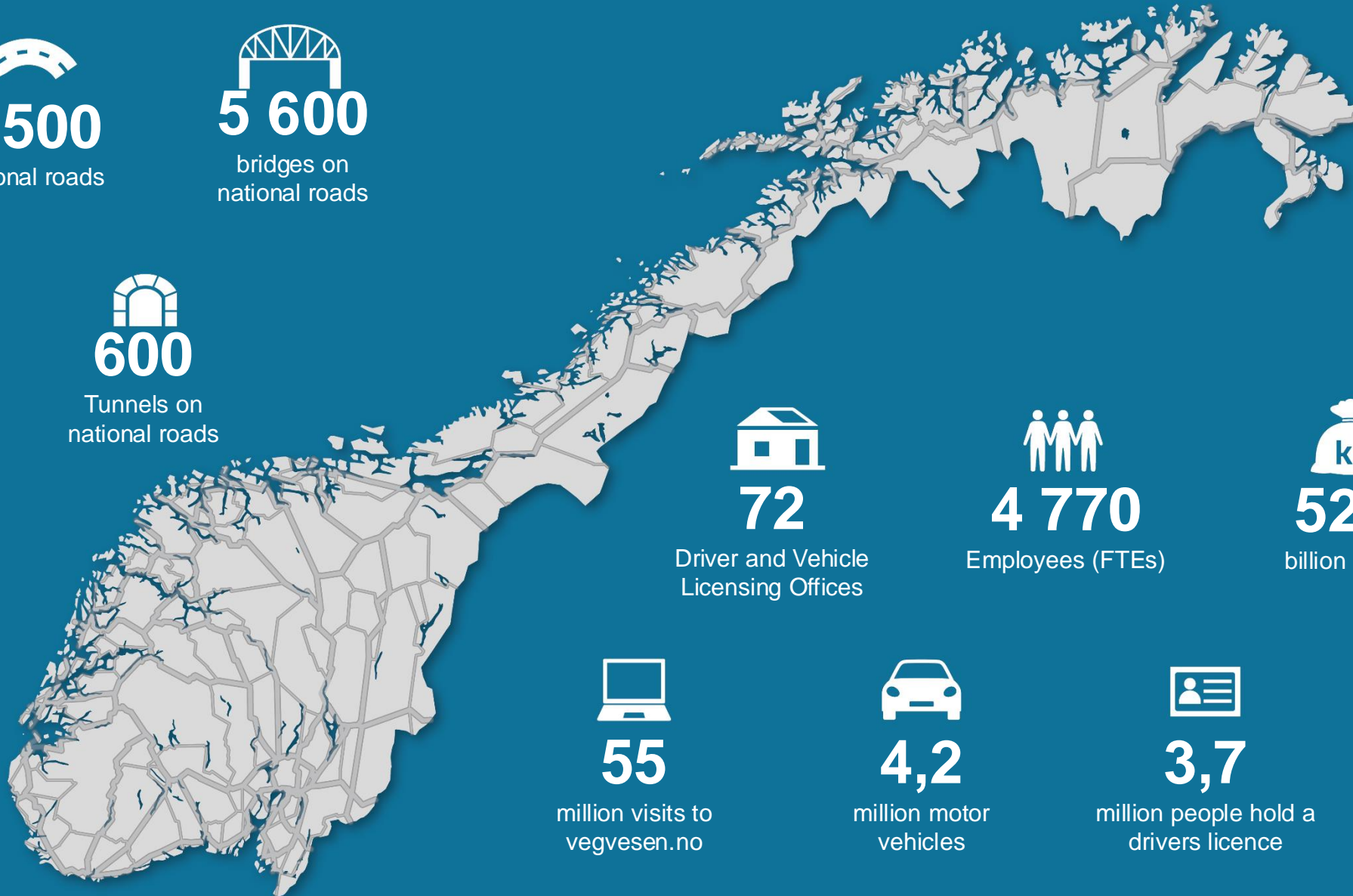
55
million visits to
vegvesen.no



4,2
million motor
vehicles



3,7
million people hold a
drivers licence



Goals in the National Transport Plan 2022-2033



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Administration

An efficient, safe and environmentally friendly transport system in 2050



Easier everyday mobility and increased competitiveness for business and industry



Contribute to Norway's fulfilment of its climate and environment goals



Vision Zero:
No fatalities or serious injuries



Efficient use of new technologies



More value for money



We will
preserve what
we have

Repair where
possible

And build
new when
required



Greenhouse gas emissions and climate change adaptation

We will cut greenhouse gas emissions from the transport sector in line with Norway's commitments, and adapt the road network to the climate of the future



Resource usage and circular economy

We will preserve what we have, repair where possible and build new where required



Biodiversity and ecosystems

We will protect nature and ensure zero net loss of biodiversity



Local communities and road users

We will provide a safe and accessible transport system that makes it easier to use environmentally friendly means of transport



Legal compliance and working conditions

We will have zero tolerance for work-related crime in the supply chain and the transport industry

... where it is important that we succeed!

Greenhouse gas emissions and climate change adaptation

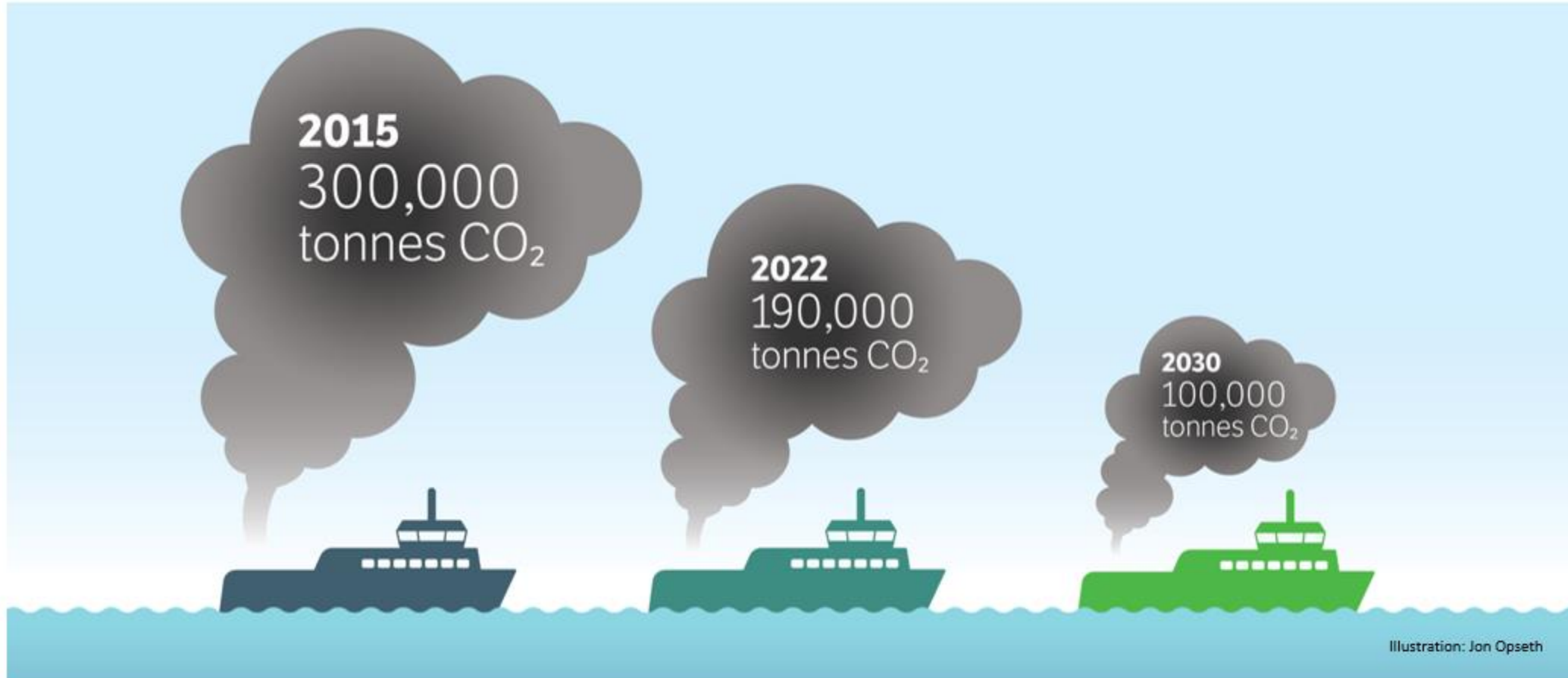
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Goal

- We will make the road network resilient through comprehensive work with climate change adaptation
- We will reduce greenhouse gas emissions from road transport by 55 % by 2030
- We will reduce greenhouse gas emissions from construction, operations and maintenance of roads by 55 % by 2030*
- We will reduce greenhouse gas emissions from internal operations by 55 % by 2030



We are on our way; cutting ferry-emissions



All new ferries in Norway are built for “zero emission” – requirements in contracts
We use this success as an *inspiration* for reducing emissions on our construction sites

Testing new technology

- 6 facilities + 2 new ones this year
- Small and larger emission-free solutions; e.g. digging, drilling, loading and shipping, stone crushing
- Battery and/or cable
- Data collection and improved logistics
- Battery-electric risk assessments for use in tunnels
- Contract strategies

Transfer of experience

For heavy work,
heavy machinery is needed!





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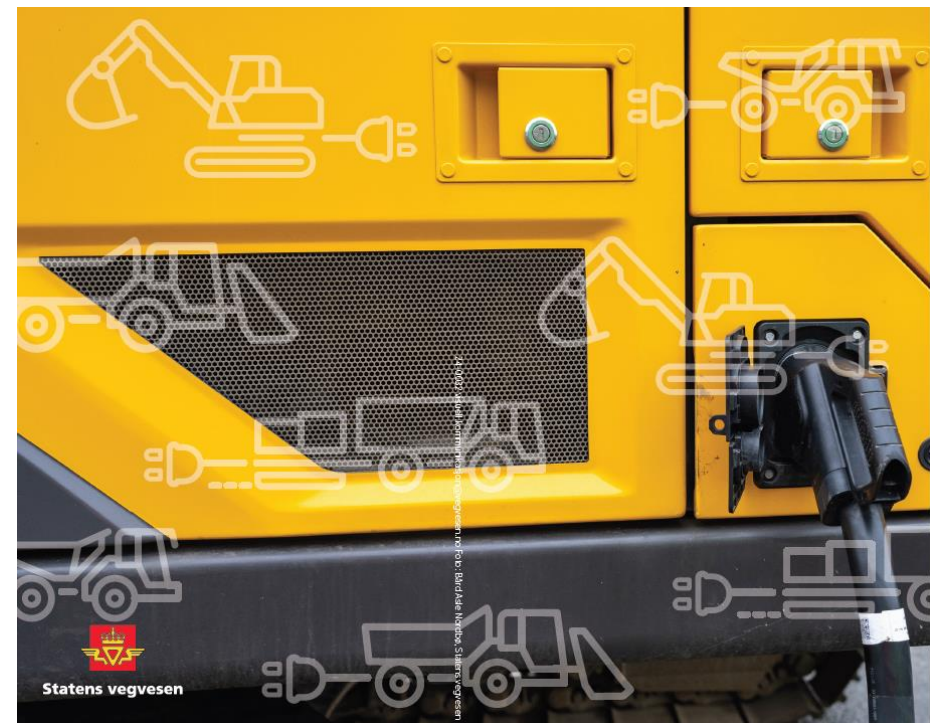
Pilot project:
This year we
are building a
people-friendly
main street
("miljøgate")
at Gran with
almost zero
emissions



- **The Norwegian Public Roads Administration will, among other things:**

- Set requirements for active use of emission-free machines, vehicles and emission-free heating
- Use market dialogue actively to ensure that contractors can deliver on the requirements
- Ensure power is available in an early phase and, if necessary, upgrade the available capacity at the plant and follow NS/TS 3770 to allow competition on equal terms.
- Use a stepwise approach for the coming years to learn more about the pricing mechanisms
- Essentially, set requirements for zero emissions in all our development contracts during 2027

Action plan to reduce direct greenhouse gas emissions from construction projects
55% reduction 2020–2030





Challenges

(Still) high investment costs

Little experience with workload of heavy Zero Emission (ZE) machines - availability

In need of series production of heavy Zero Emission Non-road machinery

Motivation and willingness to change the industry

Fair competition even for smaller entrepreneurs

Planning for power at the construction sites – less problematic than expected



Thank you for your attention

**Norwegian Public
Roads Administration**

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Foto: Øyvind Ellingsen