



BIOMETHANE

The Danish experience - a TSO perspective

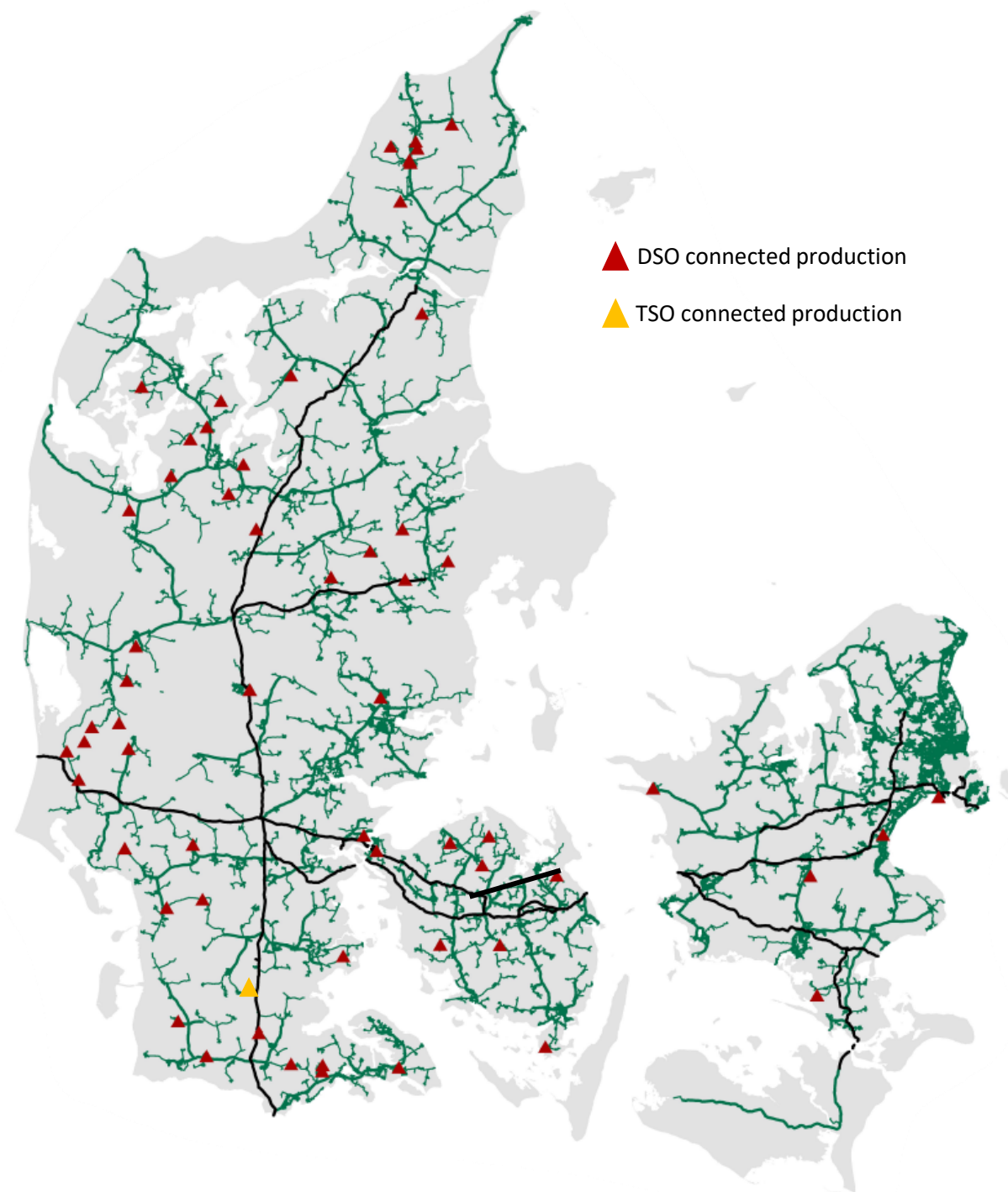
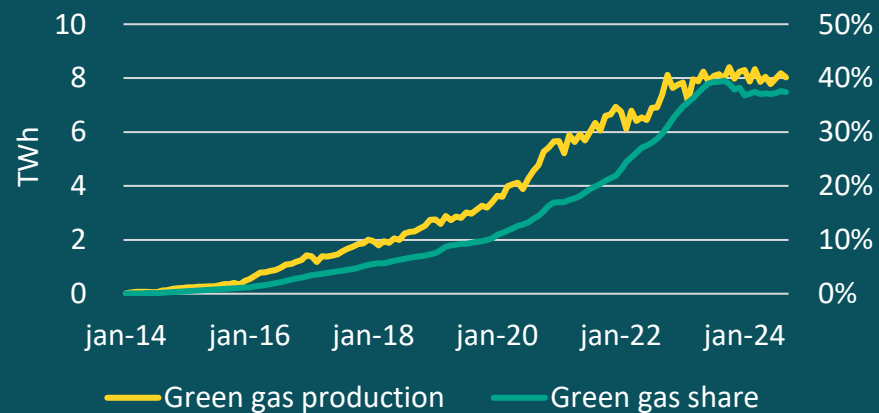
Kristian Løgstrup, Chief Economist

ENERGINET

DANISH BIOMETHANE PRODUCTION

- 57 DSO grid connected biomethane plants
- 1 TSO grid connected biomethane plant
- 6-7 facilities under way (several others pending)
- Potential for 100% green gas share by 2030

Danish bio-methane production



SUCCESSFUL DANISH BIOMETHANE DEVELOPMENT



SUBSIDY SCHEME



GREEN CERTIFICATES



FAVORABLE GAS QUALITY
REQUIREMENTS



MANDATORY GRID
CONNECTION (DSO/TSO)



GRID RE-ENFORCEMENTS
PAID BY DSO/TSO



INDUSTRIALISATION OF
THE BUSINESS



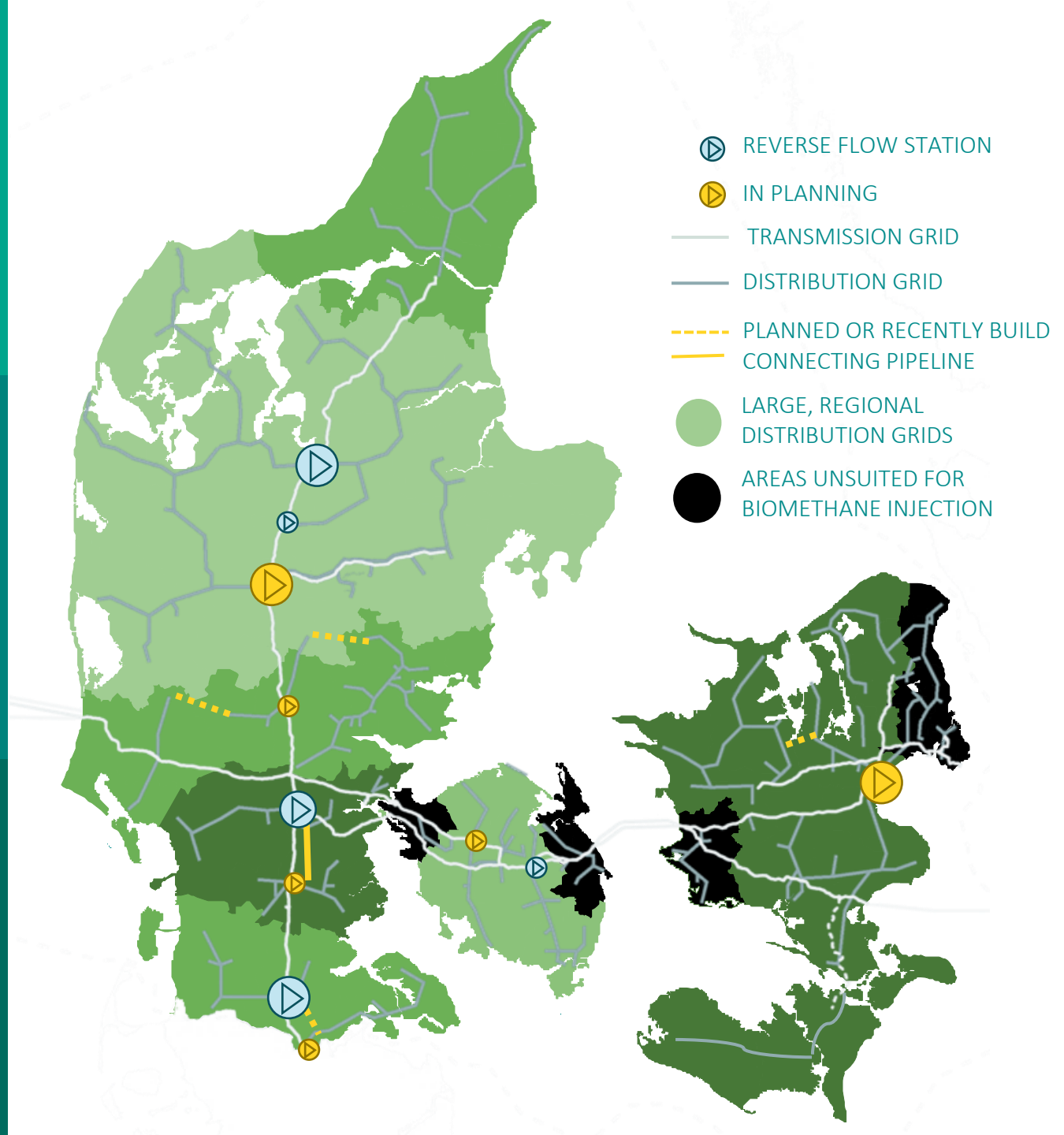
TSO-DSO COLLABORATION FOR OPTIMAL PLANNING



DSO CONNECTS
DISTRIBUTION GRIDS
→ 7 LARGE DISTRIBUTION
GRIDS IN DENMARK



TSO ENSURES SUFFICIENT
REVERSE FLOW CAPACITY
FOR ALL 7 DISTRIBUTION
GRIDS



HOW TO MOVE TOWARDS 100% BIOMETHANE

- WHAT WE HEAR FROM MARKET PARTICIPANTS



FROM SUBSIDY TO
MARKET DRIVEN

E.g. tax exemption for
unsubsidised biogas and
blending requirement



CLARIFY ROLE IN THE
GREEN TRANSITION

E.g. backup for electricity
production and heating
for households



KICK-START A MARKET
FOR CO₂

Biogas plants have a CO₂
capture potential of 1-2
mil. ton of biogenic CO₂