





1000 kW $_{\rm e}$ ) has been limited for different reasons including high investment and running costs, poor reliability, low acceptance by end-user.

- At the root of these reasons: contaminants in biomass, nonuniform appearance of biomass, low energy density, complicated operation, difficulty to operate on varying load
- Using biomass-derived liquids instead of direct biomass can break down main barriers hindering a wider use of biomass in smallscale CHP systems













## **Joint activities**

- Emission Catalysts: catalysts for upgrading PO and for NO<sub>x</sub> reduction, developed by BIC, were tested by NAMI
- Pyrolysis Oil Blends: a method for blending of PO and biodiesel with bio-alcohols, developed by Aston, was evaluated by BTG and Florence
- Round Robin to establish and compare the basic fuel properties of vegetable oil, biodiesel and PO
- > Training Materials targeted at Masters students
- Promotion and Dissemination: production and distribution of promotional materials in English & Russian

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