



AFFORDABLE CLEAN ENERGY

A ECO GROUP OF COMPANIES



ABOUT US

Private engineering group of companies located in Russia, Kazakhstan and UAE successfully works in the field of renewable energy since 2007

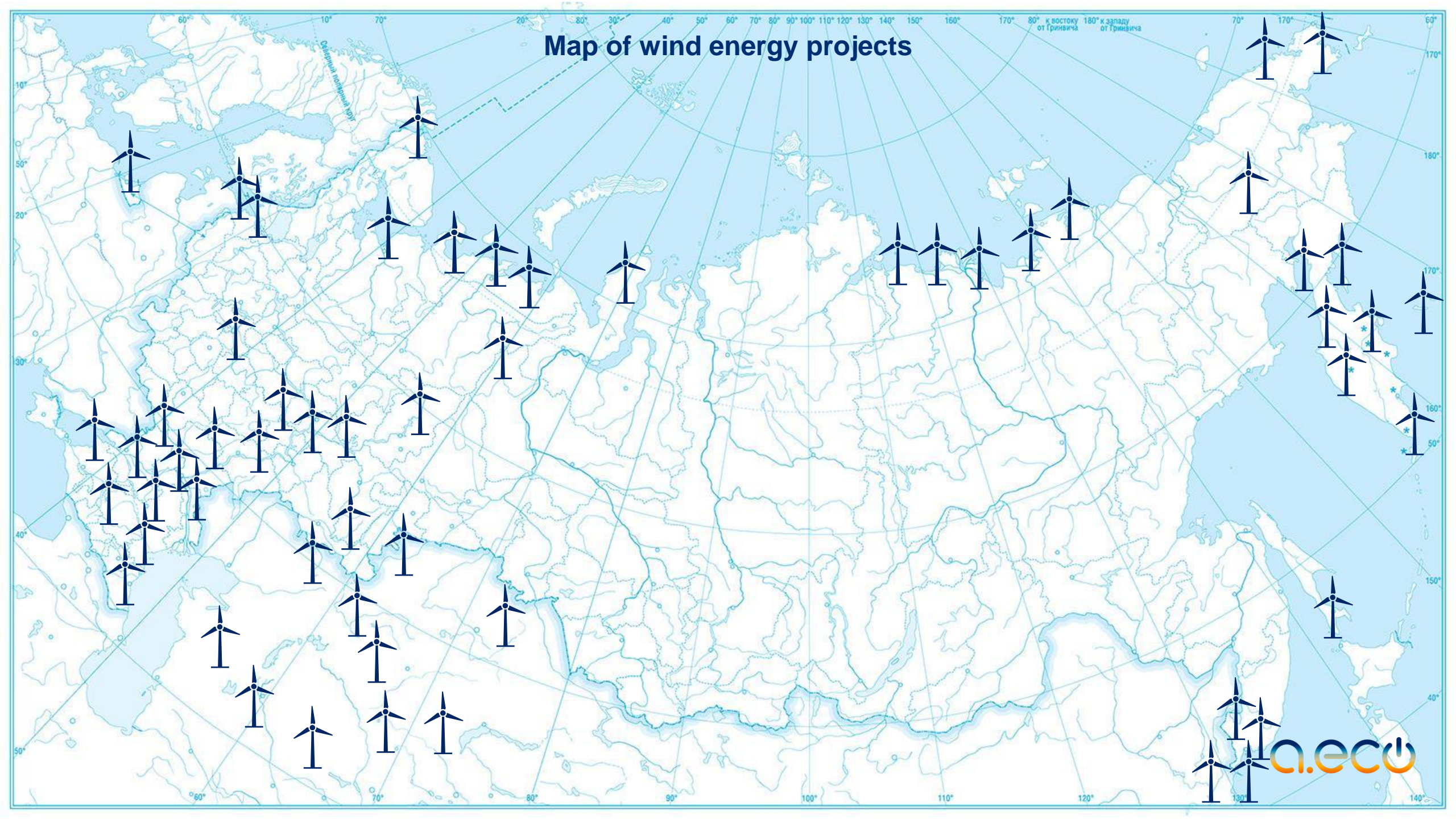
- Over 400 completed projects
- Grid-connected and off-grid solar and wind power plants
- For private households and industrial consumers
- Wind resource assessment: over 220 wind farms (over 5,000 MW)
- Wind met masts: over 100
- Feasibility studies: 17 wind farms (458 MW)
- Basic and detailed design: 9 wind farms (49.7 MW)
- Construction and installation works: 8 wind farms (18 MW)



WIND ENERGY - FROM IDEA TO OPERATION

- Site selection
- Wind monitoring
- Wind energy yield assessment
- Micro-siting
- Environmental impact assessment
- Feasibility studies
- Design and detailed design
- Wind turbines supply
- Construction and installation
- Commissioning
- Technical due diligence of wind projects
- O&M of wind turbines

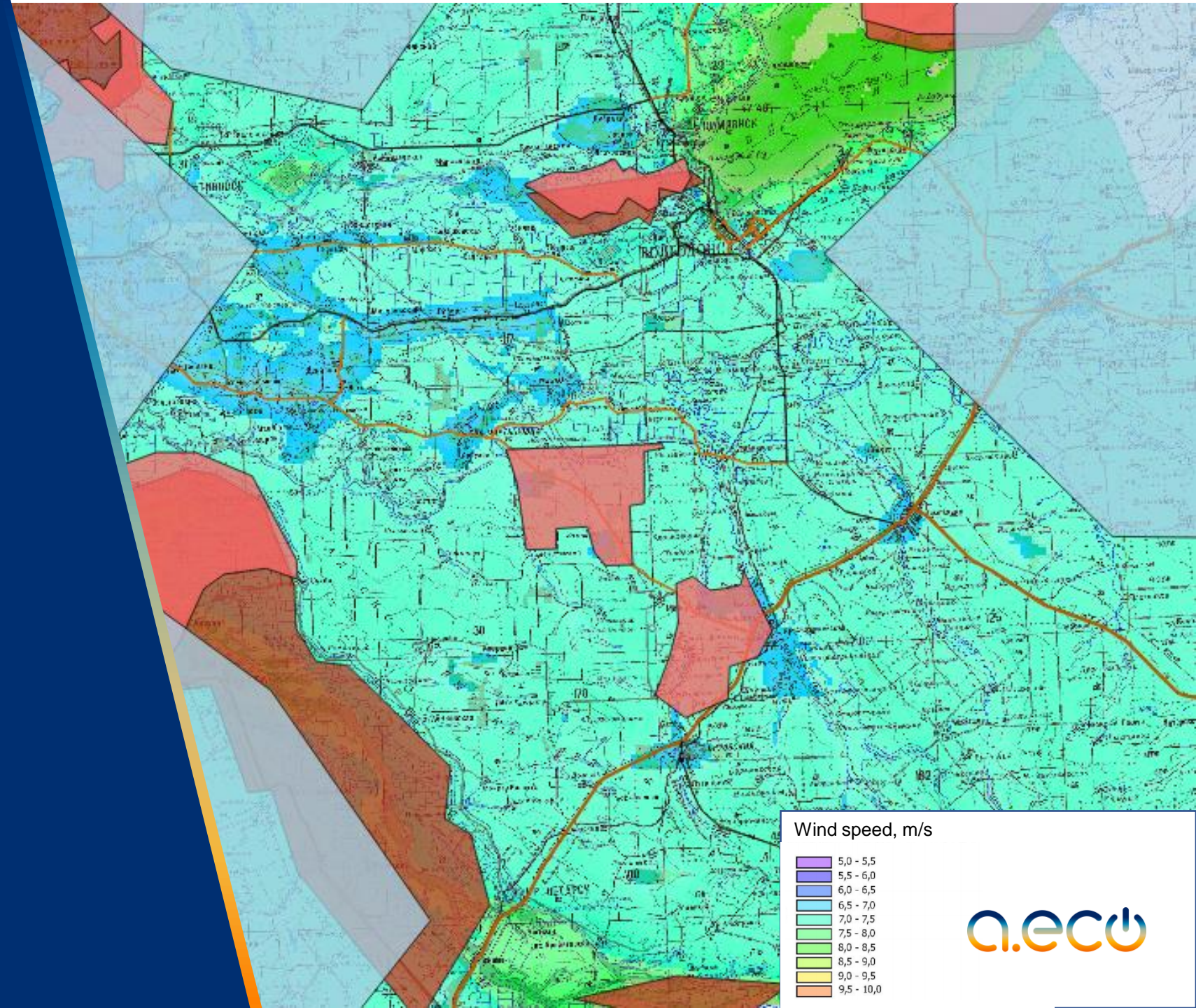
Map of wind energy projects



SITES SELECTION

Criteria:

- Wind energy resource
- Transport access
- Grid connection
- Status of land plots
- Construction conditions
- Restrictions of aviation services
- Environmental restrictions



**№1 IN RUSSIA AND
CIS IN WIND
MEASUREMENTS
AND ENERGY YIELD
ASSESSMENT**

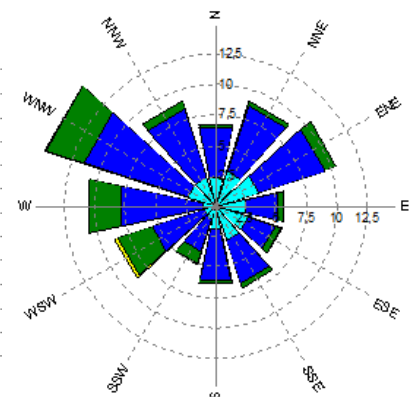
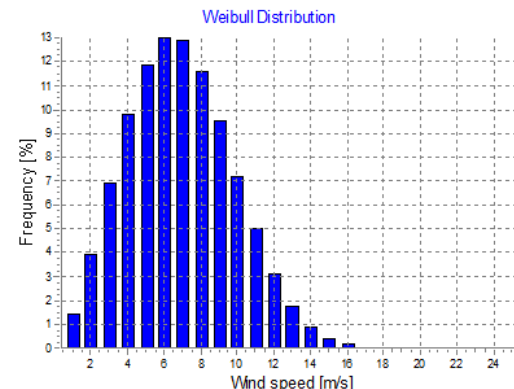
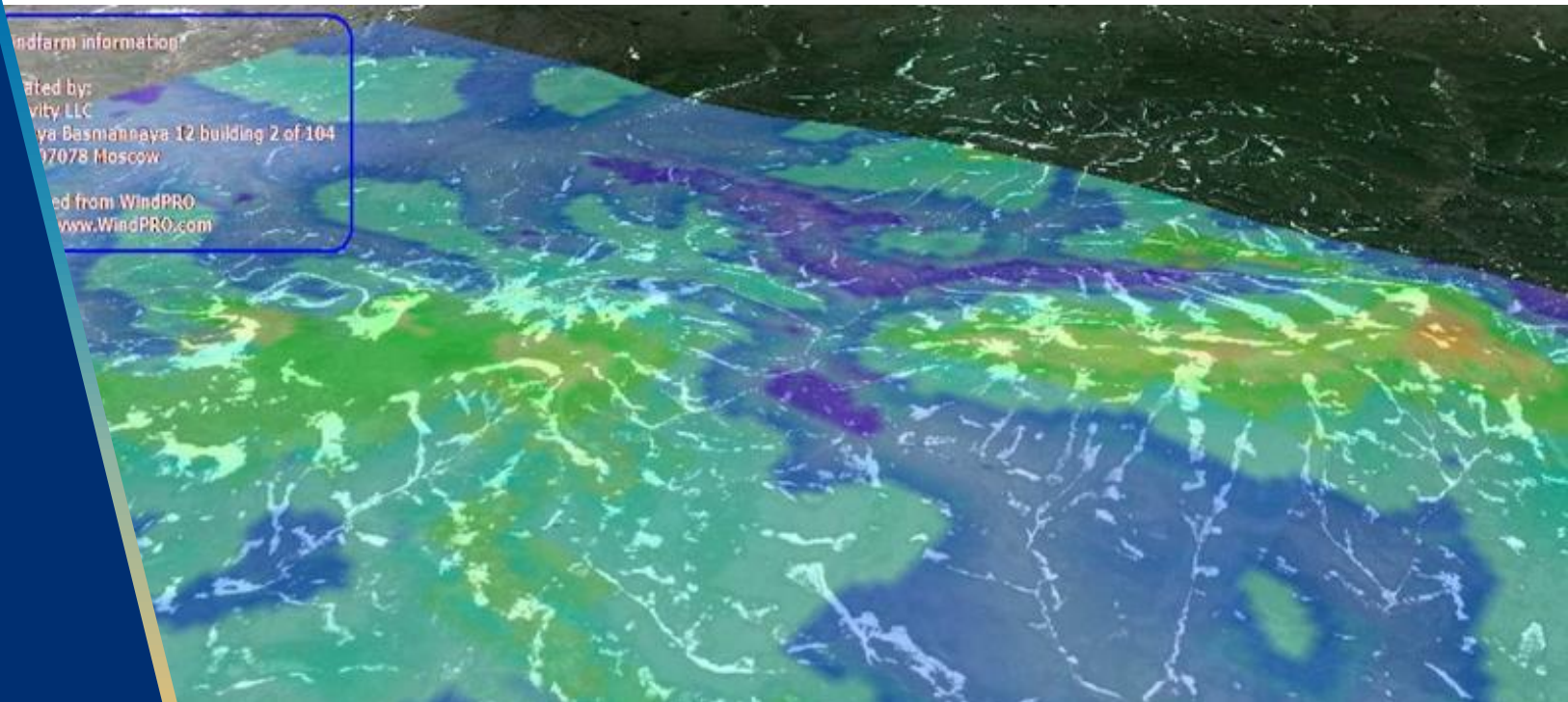
- Carrying out wind measurements in accordance with IEC 61400-12, IEC 61400-50-1, MEASNET
- Over 100 met masts installed up to 120 m high, including 11 masts above the polar circle
- Official dealer of Ammonit and NRG
- Projects in Russia, Kazakhstan, Uzbekistan



WIND ENERGY CALCULATIONS

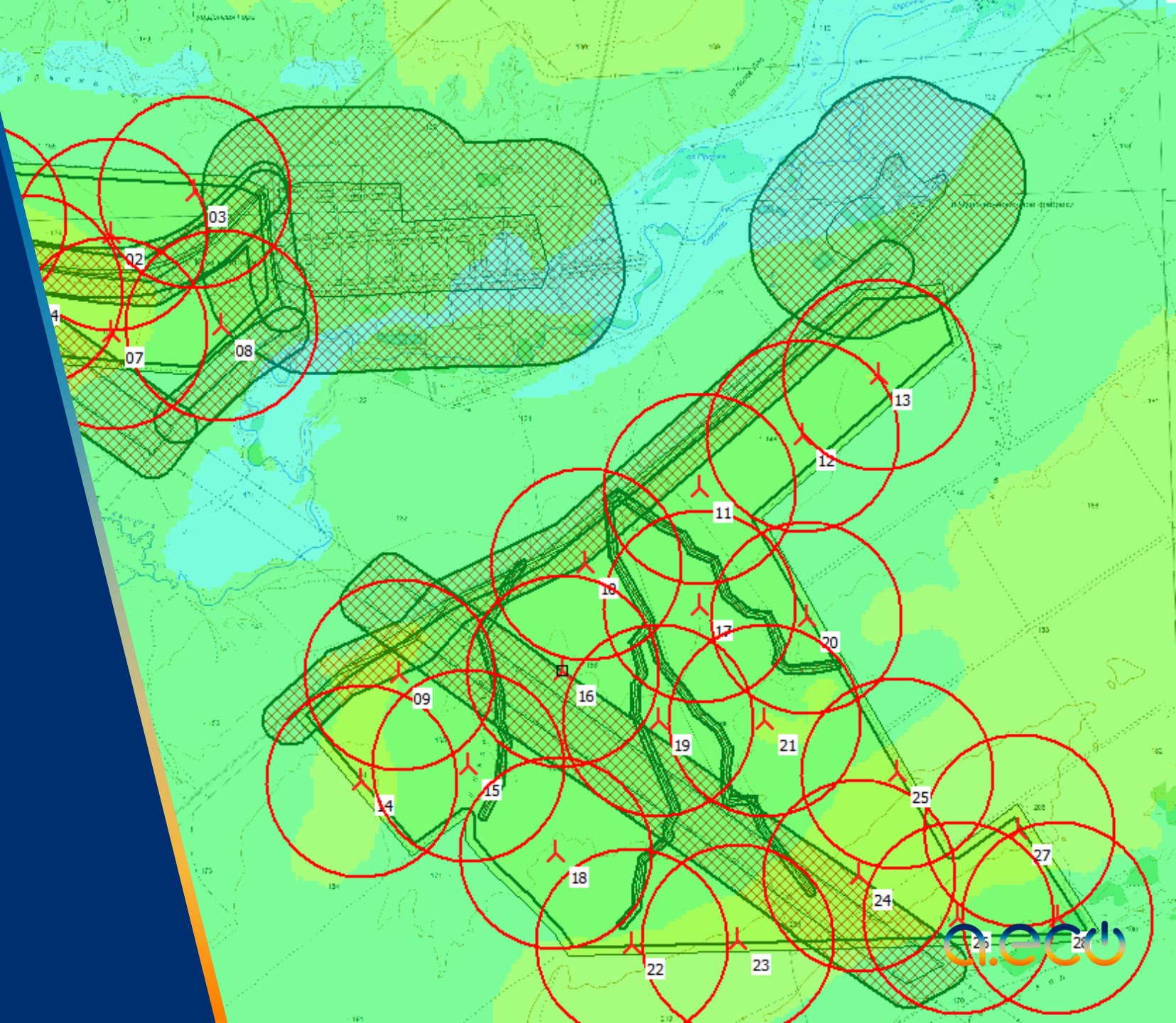
- Maps of the distribution of average wind speed, wind energy and wind power output
- Weibull distribution
- Wind roses by frequency, average velocity, and energy
- Vertical wind profile
- Extreme wind speed
- Turbulence
- Annual power output
- Losses and probabilities

Windfarm information:
Created by:
Energy LLC
Basmannaya 12 building 2 of 104
127078 Moscow
Created from WindPRO
www.WindPRO.com



MICRO-SITING

- Maximizing output
- Minimization of turbulence
- Minimization of flow deflection
- Minimization of surface slopes
- Respect for restrictions on placement near infrastructure: buildings, roads, power lines, pipelines
- Respect of sanitary norms in places with regulated noise indexes
- Optimization of construction works



ENVIRONMENTAL IMPACT ASSESSMENT



An assessment of the impact of wind power plants on:

- geological environment
- soil environment
- water environment
- atmospheric air
- flora and fauna

With the calculation of:

- shadows
- noise impact in accordance with Russian and international norms.

WIND ENERGY

COMPLETED PROJECTS

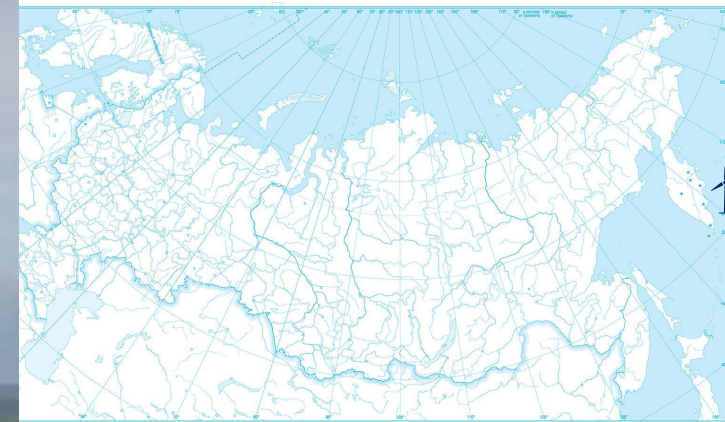


Wind-diesel system with two
Vergnet 275 kW wind turbines

Bering Island, Kamchatka

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - general designer,
general contractor



WIND ENERGY

COMPLETED PROJECTS

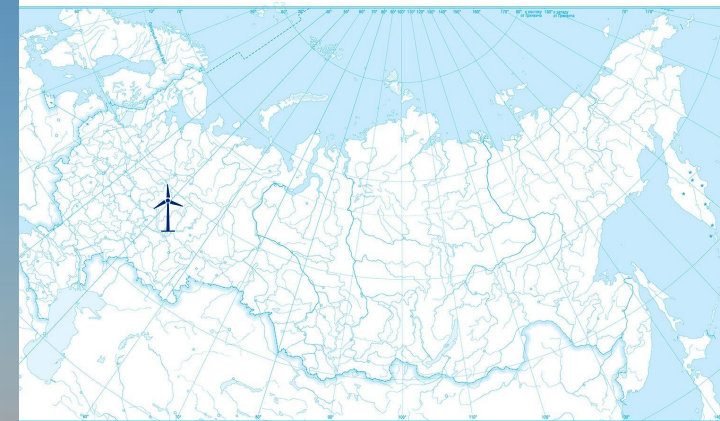


Wind-diesel system with
GHRepower 30 kW wind turbine

Oil field, Republic of Tatarstan

Customer: OJSC RITEK

Activity LLC - general designer,
general contractor, equipment
supplier



WIND ENERGY

COMPLETED PROJECTS

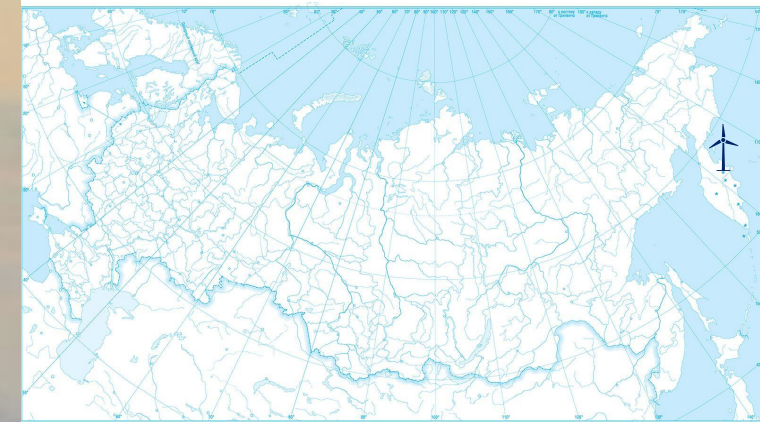


Vergnet 275 kW wind turbine

Ust-Kamchatsk, Kamchatka

Customer: OJSC "Mobile
Energy "

Activity LLC - general designer,
general contractor



WIND ENERGY

COMPLETED PROJECTS

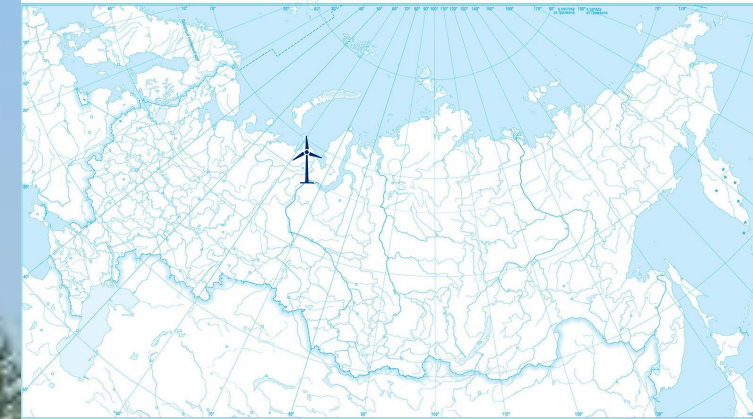


250 kW Micon WTG in
permafrost conditions

Labytnangi, Yamalo-Nenets
Autonomous District

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - general designer



WIND ENERGY

COMPLETED PROJECTS

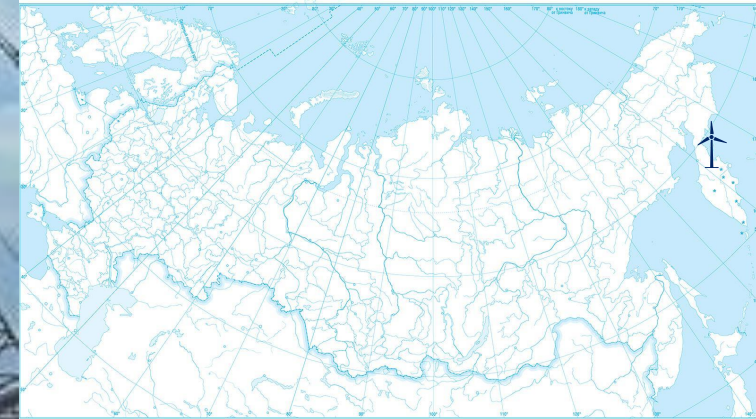


Komai WTG 300 kW

Ust-Kamchatsk, Kamchatka

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - general designer,
general contractor



WIND ENERGY

COMPLETED PROJECTS

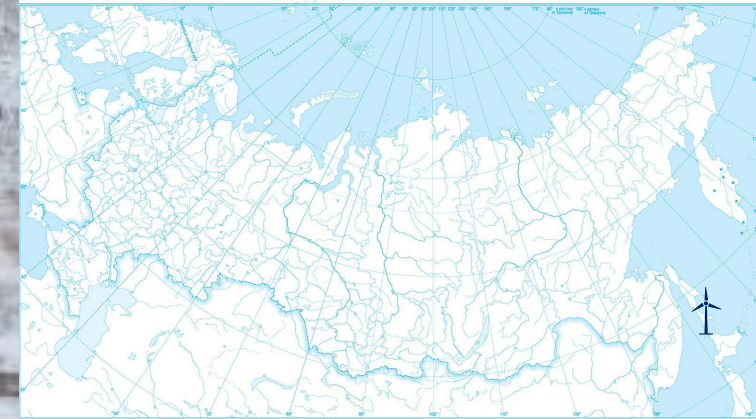


Wind-diesel system with two
refurbished 225 kW Vestas wind
turbines

Novikovo village, Sakhalin

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - General
Contractor



WIND ENERGY

COMPLETED PROJECTS

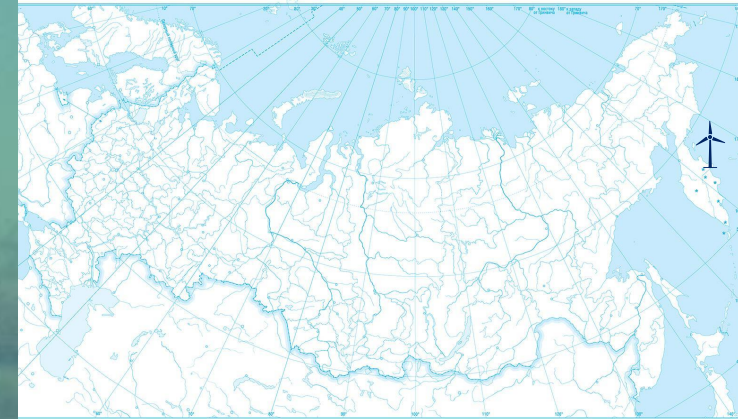


Wind-diesel system with three
300 kW Komai wind turbines

Ust-Kamchatsk, Kamchatka

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - general designer,
general contractor



WIND ENERGY

COMPLETED PROJECTS

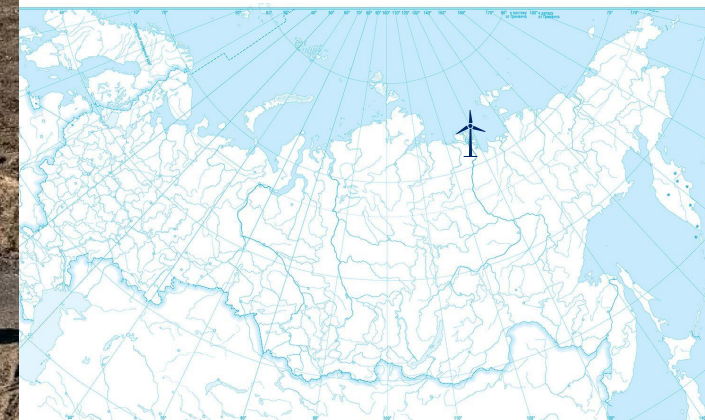


Wind-diesel system with three
300 kW Komai wind turbines

Tiksi settlement, Republic of
Yakutia

Customer: OJSC "Mobile Power
Engineering"

Activity LLC - general designer,
general contractor



WIND ENERGY

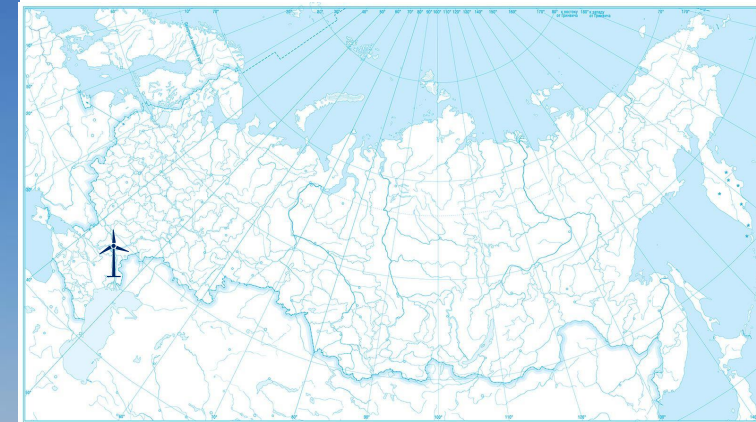
COMPLETED PROJECTS



15 MW wind farm with 25
AeroProfit 600 kW wind turbines

Tsagan-Aman settlement,
Republic of Kalmykia

Customer: Breeze WPP LLC
Activitiy LLC – EPC contractor

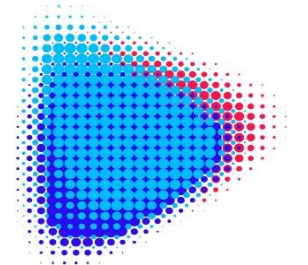


SOLAR ENERGY

- More than 300 successfully completed projects
- Engineering, construction, equipment delivery
- Grid and autonomous solar power stations
- For private households and industrial consumers



CUSTOMERS





Alexander Badelin

2012 - present. - General Director of Activity LLC

2008 - 2011 - Director of the Project Center for Wind Power Plants
JSC NIIES (PJSC RusHydro)

2002 - 2007 - Senior researcher at Fraunhofer IEE (Germany)

Education

- Dr.-Ing., University of Kassel (Germany),
- Master's degree in "Electric power systems", University of Karlsruhe (Germany),
- Engineer, Tomsk Polytechnic University, Department "Electrical Power Plants"



Ilya Brodsky

Chairman of the Board of Directors of Activity LLC

Director of Halcyon Global Opportunities



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