

Unofficial translation

Are confirmed
Of the order of the Minister of Energy
and Mineral Resources
of the Republic of Kazakhstan
From “01” 10.2009 No 270

Rules of definition of the nearest point of connection to the grid or thermal networks and connections of the objects on use of renewable

1. General provisions

1. The present Rules of definition of the nearest point of connection to grid or thermal networks and connections objects on use of renewable (further - Rules) are developed according to Law of the Republic of Kazakhstan from July, 4th, 2009 «About support of use of renewable», from July, 9th, 2004 «About electric power industry» and regulate features of definition of the nearest point of connection to grid or thermal networks and connections objects on use of renewable (further - renewable).

2. In the present Rules following concepts are used:

- the working commission - the temporary joint body created by the power transportation organization for consideration of the demand by the qualified power generator organization for definition of the nearest point of connection to grid or thermal networks objects on use of renewable;

- the nearest point of connection to the thermal networks - a point of cutting-in the pipeline from object on use of renewable into general system of heat supply of settlement with the parameters corresponding to parameters of the heat-carrier in the general system of a heat supply;

- the nearest point of connection to the grid - a point cutting-in of the segments of the power transmission lines from substation qualified power generator organizations to existing (projected and planned to a construction the next two years) grid of sufficient throughput for delivery of a full designed capacity of a generating source on the basis of use of

renewable. For wind power plants and parks with asynchronous generators the nearest are power transmission lines (the substation busbar wire) not less than with a bilateral power supply.

2. An order of definition of the nearest point connections to grid

3. Definition of the nearest point of connection of objects on uses of renewable to grid should satisfy to conditions of transportation of the established capacity of the objects on uses of renewable at preservation of economically proved density of the current defined qualified power generator organization on the basis of technical and economic calculation.

4. The announcement of the qualified power generator organizations on definition of the nearest point of connection of the objects on uses of renewable to grid give in the power transportation organization and contains following data on installation of the renewable:

- the name and installation type of equipment;
- preferable arrangement of a site (the list of the alternative variants of micro siting of the units with indications of their preliminary placing on a map);
- admissible transfer of capacity of all installation (maximum in megawatt, with showing - indications $\cos \varphi$ and / or in megawatts, megaVoltAmper (further-MVA));
- expected productivity (megawatt*hour per month);
- expected consumption electricity of the auxiliary system, including jet power;
- installation design / configuration of the objects on uses of renewable;
- nature of any revolting loading;
- technology used offered power object;
- date of prospective putting into operation;
- minimum level of generation of active power in megawatts (further - MW);
- rating unit values in MVA, megawatt, transitive jet resistance on a longitudinal axis, the short circuit relation, an inertia constant of the power equipment with synchronous generators / engines;
- rating unit value in MVA of the raising transformer and jet resistance of direct sequence (at a max / min of branches);

- type and activator category.

5. Power transportation organization, in time not later than ten calendar days from the date of receipt of the application from qualified power generator organizations, creates the working commission with attraction of experts of the qualified power generator organizations, the state power supervision, system operator. As a part of the working commission should be not less than 5 experts.

6. The working commission, not later than ten calendar days from the date of creation, makes decision and makes out the decision the certificate about definition of a point of connection of objects on uses of renewable to the grid.

3. An order of definition of the nearest point connections to thermal networks

7. Definition of the nearest point of connection of objects on uses of renewable to thermal networks should satisfy to conditions of conformance of the parameters of the heat-carrier of the objects on uses of renewable to corresponding parameters of the heat-carrier in the general system of a heat supply at preservation of economically proved hydraulic modes defined of the qualified power generator organization on the basis of technical and economic calculation.

8. Announcement of the qualified power generator organizations on definition of the nearest point of connection of the objects on uses of renewable to the thermal networks gives in the power transportation organization and contains following data:

- kind of the used renewable, offered point of connection to thermal networks, a technology of regulation of quantity of released thermal energy;

- parameters of the heat-carrier and hydraulic mode in points of connection taking into account loadings of other consumers;

- requirements on installation of devices of the commercial account of thermal energy;

- technology of a lining of thermal networks (elevated or underground);

- thermal scheme of joining of heating - ventilating and technological loadings and loading of hot water supply;

- temperature schedule and the debit of the network water;
- balance and operational accessory of constructed or reconstructed thermal networks and border of an operational responsibility of the parties.

9. Power transportation organization, in time not later than ten calendar days from the date of receipt of the demand from the qualified power generator organizations, creates the working commission with attraction of experts of the qualified power generator organizations, the state power supervision, power transportation organization. As a part of the working commission should be not less than 5 experts.

10. The working commission, not later than ten calendar days from the date of creation, makes decision and makes out the decision the certificate about definition of a point of connection of the objects on uses of renewable to the thermal networks.

4. An order of connection of objects on use of renewable

11. For connection of the objects on use of renewable to grid or thermal networks the qualified power generator organization in an order established by Electricity Network Rules of the Republic of Kazakhstan, confirmed by the order of the Deputy of the Prime minister of the Republic Kazakhstan - Minister of Energy and Mineral Resources of the Republic of Kazakhstan from December, 24th, 2001 No 314 (it is registered in the Register of the state registration of standard legal certificates on December, 28th, 2001 for No 1708) (further – Electricity Network Rules), represents the claim in the power transportation organization on reception of technical specifications.

12. Technical specifications on connection of the objects on uses of renewable to grid stand out of the power transportation organization on the basis of the joining scheme (delivery of power) the power electricity station developed by the specialized design organization, and containing the scheme of connection of the objects on uses of renewable to grid.

13. Technical specifications on connection of the objects on uses of renewable to thermal networks stand out on the basis of the scheme of joining of the objects on uses of renewable, the developed specialized design organization, and containing the scheme of connection of the objects on uses of renewable to the thermal networks.

14. If parameters of connected installation do not lead to excess of threshold parameters of grid or thermal network, the power transportation organization develops necessary technical specifications on connection of the objects on uses of renewable in conformity with Electricity Network Rules.

15. Announcement of the qualified power generator organizations on reception of technical specifications is considered by the power transportation organization in a month if strengthening of an acting grid or thermal network is not required. In cases when connection requires network strengthening, term of consideration of the announcement makes no more than 2 months.

16. By results of consideration of the announcement for reception of the technical specifications the power transportation organization gives out technical specifications on connection to grid or thermal network of object on use of renewable with instructions of a point of the connection certain by the working commission.

17. Period of validity of technical specifications on connection, after their acceptance the qualified power generator organization, is established under the arrangement of the parties, but not less the term necessary for a stage of pre-design researches, designing and building of the objects on uses of renewable defined on the basis of effective standards of designing and building.

18. Erection of an infrastructural part of the objects on use of renewable to a connection point is carried out by the proprietor of this object on use of renewable with inclusion of expenses in project cost.

19. Expansion and reconstruction of existing grid and thermal networks of the power transportation organizations for connection of the objects on use of renewable are carried out by the proprietor grid and (or) thermal networks with obligatory inclusion of the given expenses in tariffs of the power transportation organizations in an order established [by the legislation](#) of the Republic of Kazakhstan about natural monopolies and the adjustable markets.

20. If the objects on uses of renewable is connected to a regional grid with loading or generation of capacity from 0,1 to 10 MW, the power transportation organization and the qualified power generator organization within one month from the date of receipt of announcement notify the system operator on the offer status on connection of the equipment and send a copy of the demand for connection. At connection

of capacity of the object on use renewable exceeding 10 MBт, the power transportation organization and the qualified power generator organization co-ordinate the announcement and the offer for connection with the system operator.

21. Connection of the object on use renewable to grid or thermal networks is carried out in an order established by the legislation of the Republic of Kazakhstan about architectural, town-planning and building activity.

5. The resolution of disputes

22. The disputes arising between by the power transportation organizations and by the qualified power generator organizations, concerning definition of the nearest point of connection to grid or thermal networks and connections the objects on uses of renewable, are resolved according to the Republic of Kazakhstan legislation.