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## CONFERENCE ON INTERNATIONAL SCIENTIFIC DEVELOPMENTS: INSIGHTS INTO MODERN SCIENCE AND INNOVATIVE PRACTICES

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# CONFERENCE ON INTERNATIONAL SCIENTIFIC DEVELOPMENTS: INSIGHTS INTO MODERN SCIENCE AND INNOVATIVE PRACTICES

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# MAHALLIY SHAMOL SHAROITLARIGA MOS IKKI ROTORLI SHAMOL TURBINALARI KONSTRUKSIYASINI TAKOMILLASHTIRISH

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**Kalit so‘zlar:** shamol energetikasi, ikki rotorli turbina, mahalliy shamol sharoiti, rotor diametri, aerodinamik ta’sir, energetik samaradorlik.

**Annotatsiya.** Tezisda mahalliy shamol sharoitlarini hisobga olgan holda ikki rotorli shamol turbinalari konstruksiyasini takomillashtirish masalalari ko‘rib chiqiladi. Shamol tezligi, rotor diametri, rotorlar orasidagi masofa va aerodinamik o‘zaro ta’sirning energetik samaradorlikka ta’sirini baholash yondashuvi taklif etiladi.

**Ключевые слова:** ветроэнергетика, двухроторная ветротурбина, местные ветровые условия, диаметр ротора, аэродинамическое взаимодействие, энергетическая эффективность.

**Аннотация.** В тезисе рассматриваются вопросы совершенствования конструкции двухроторных ветротурбин с учетом местных ветровых условий. Предлагается подход к оценке влияния скорости ветра, диаметра роторов, расстояния между роторами и аэродинамического взаимодействия на энергетическую эффективность.

**Keywords:** wind energy, dual-rotor wind turbine, local wind conditions, rotor diameter, aerodynamic interaction, energy efficiency.

**Abstract.** This thesis examines the improvement of dual-rotor wind turbine designs considering local wind conditions. An approach is proposed to evaluate the effects of wind speed, rotor diameter, inter-rotor spacing, and aerodynamic interaction on energy efficiency.

**Kirish.** Qayta tiklanuvchi energiya manbalaridan samarali foydalanish bugungi kunda muhim ilmiy-texnik vazifalardan biridir. Shamol energetikasi elektr energiyasini ekologik jihatdan maqbul usulda ishlab chiqarish imkonini beradi. Biroq shamol tezligi, yo‘nalishi, hudud relyefi va yer yuzasining g‘adir-budurligi turli joylarda farq qilishi sababli turbina konstruksiyasini mahalliy sharoitlarga moslashtirish zarur [1].

Ikki rotorli shamol turbinalari shamol oqimidan energiya olish imkoniyatlarini kengaytiruvchi konstruktiv yechimlardan biri hisoblanadi. Tadqiqotlarda rotorlar

o‘rtasidagi aerodinamik ta’sir turbina quvvati va oqimning keyingi harakatiga ta’sir qilishi ko‘rsatilgan [2]. Shu sababli rotorlar diametri, ular orasidagi masofa va aylanish tezligini o‘zaro muvofiqlashtirish muhim ahamiyatga ega [3].

Mazkur tadqiqotning maqsadi mahalliy shamol sharoitlarini hisobga olgan holda ikki rotorli shamol turbinalarining konstruktiv parametrlarini tanlash va energetik samaradorligini oshirish bo‘yicha ilmiy asoslangan yondashuv ishlab chiqishdan iborat.

**Materiallar va metodlar.** Tadqiqotda shamol energetikasi nazariyasi, matematik modellashtirish va konstruktiv parametrlarni taqqoslash usullaridan foydalanish nazarda tutiladi. Mahalliy sharoitni baholashda shamol tezligi va yo‘nalishi, mavsumiy o‘zgarishlar, hudud relyefi hamda atrofdagi to‘siqlar hisobga olinadi. Shamol resurslarini ishonchli baholash uchun uzoq muddatli meteorologik kuzatuvlar muhim hisoblanadi [1].

Shamol oqimining nazariy quvvati quyidagi formula orqali aniqlanadi:

$$P_w = \frac{1}{2}\rho A v^3$$

Bu yerda $P_w$— shamol oqimining nazariy quvvati (W);

$\rho$ — havo zichligi (kg/m³);

A — rotorning shamol oqimiga qaragan yuzasi (m²);

v — shamol tezligi (m/s).

Turbina rotorining yuzasi gorizontal o‘qli konstruksiya uchun quyidagicha hisoblanadi:

$$A = \frac{\pi D^2}{4}$$

Bu yerda D — rotor diametri (m).

Ikki rotorli tizimning umumiy elektr quvvati quyidagicha ifodalanadi:

$$P_{\text{um}} = P_1 + P_2$$

Bunda $P_1$va $P_2$ mos ravishda birinchi va ikkinchi rotor hosil qiladigan elektr quvvatidir. Ikkinchi rotor quvvatini hisoblashda birinchi rotor ortidagi shamol tezligining o‘zgarishi va rotorlararo aerodinamik ta’sir e’tiborga olinadi [2, 3].

Konstruksiyani takomillashtirishda rotorlar orasidagi masofa, rotor diametrlari nisbati va aylanish tezligi o‘zgartiriladigan parametrlar sifatida qaraladi. Eng maqbul variant umumiy quvvatni oshirish, konstruktiv yuklamalarni maqbul darajada saqlash va mahalliy shamol sharoitlariga mos ishlash mezonlari asosida tanlanadi.

**Natijalar va muhokama.** Adabiyotlar tahlili ikki rotorli shamol turbinalarining samaradorligi faqat rotorlar soniga emas, balki ularning o‘zaro joylashuvi va aerodinamik ta’siriga ham bog‘liqligini ko‘rsatadi. Tajribaviy tadqiqotlarda ayrim ikki rotorli konfiguratsiyalar uchun quvvat ko‘rsatkichlarida yaxshilanish kuzatilgan, biroq natijalar konstruksiya va ish rejimiga bog‘liq [2]. Rotorlar orasidagi masofa ikkinchi rotor oldidagi shamol oqimining holatiga ta’sir ko‘rsatadi. Masofa juda kichik bo‘lganda birinchi rotor hosil qilgan uyg‘onish oqimi ikkinchi rotor samaradorligini cheklashi mumkin. Masofani o‘zgartirish esa oqimning tiklanishi va umumiy quvvatga ta’sir qiladi [3].

Mahalliy shamol sharoitlariga mos konstruksiyani tanlashda quyidagi yo‘nalishlar muhim hisoblanadi:

1. Shamol tezligi va yo‘nalishining mavsumiy o‘zgarishlarini aniqlash.
2. Rotor diametri va aylanish tezligini hududning shamol resurslariga moslashtirish.
3. Rotorlar orasidagi masofani aerodinamik hisob-kitoblar asosida tanlash.
4. Turbina quvvati va mexanik yuklamalarni turli shamol rejimlarida taqqoslash.

Ushbu yondashuv konstruktiv parametrlarning umumiy energetik samaradorlikka ta’sirini tizimli baholash imkonini beradi. Biroq optimal parametrlarni aniqlash uchun mahalliy meteorologik ma’lumotlar, sonli modellashtirish va tajribaviy sinovlar natijalari talab etiladi. Shu sababli mazkur tezisda muayyan hudud uchun aniq optimal masofa yoki quvvat ortishi miqdori tajriba natijasi sifatida da’vo qilinmaydi.

**Xulosa .** Mahalliy shamol sharoitlariga mos ikki rotorli shamol turbinalarini loyihalashda shamol tezligi, rotor diametri, rotorlar orasidagi masofa va aerodinamik

o‘zaro ta’sirni birgalikda hisobga olish zarur. Matematik modellashtirish orqali konstruktiv parametrlarning umumiy quvvatga ta’sirini baholash va maqbul konfiguratsiyani tanlash mumkin. Keyingi tadqiqotlarda mahalliy shamol ma’lumotlari asosida sonli modellashtirish hamda tajribaviy sinovlar o‘tkazish tavsiya etiladi.

**Foydalanilgan adabiyotlar**

1. Murthy, K. S. R., Rahi, O. P. A comprehensive review of wind resource assessment. *Renewable and Sustainable Energy Reviews*. 2017. Vol. 72, pp. 1320–1342. https://doi.org/10.1016/j.rser.2016.10.038
2. An experimental study on the aerodynamic performances and wake characteristics of an innovative dual-rotor wind turbine. *Energy*. 2018. Vol. 147, pp. 94–109. https://doi.org/10.1016/j.energy.2018.01.020
3. Shen, X., Li, X., Yin, F., Huang, Z., Ye, Z., Guo, X. The influence of the rotor spacing distance and rotating speed ratio on the power production of dual rotor wind turbines using a modified two-way interaction blade element momentum method. *Energy*. 2024. Vol. 311, Article 133274. https://doi.org/10.1016/j.energy.2024.133274

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