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A Hybrid Power Supply with Variable Speed Drive for Automatically Move Irrigation Equipment: Margin of Feasibility

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Краткое описание

Center pivot irrigation systems are widely used in agriculture. Their water pumping systems are primary energy consumers. The use of photovoltaic power plants and variable speed drives of electric motors can reduce energy costs. The purpose of this study is to determine the feasibility of integrating variable speed drives and photovoltaic modules into water pumping systems. A novel architecture of a pumping system was suggested. Its features are no battery backup and the sale of electricity into the grid. © 2021 IEEE.

Ключевые слова автора

control; cost saving; efficiency; energy supply; irrigation; photovoltaic; variable speed drive

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Engineering controlled terms

Electric drives; Irrigation; Pumping plants; Pumps; Speed; Variable speed drives

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Center pivot irrigation systems; Cost saving; Energy consumer; Energy supplies; Hybrid power supply; Irrigation equipment; Photovoltaics; Primary energies; Variable-speed drives; Water pumping systems

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- Alexandros, N., Bruinsma, J. (2012) *World Agriculture Towards 2030/2050: The 2012 Revision*, p. 153. Цитировано 2698 раз.
<http://www.fao.org/3/a/10662e/ap0106e.pdf>
- Pereira, L.S. Water, Agriculture and Food: Challenges and Issues (2017) *Water Resources Management*, 31 (10), pp. 2985-2999. Цитировано 72 раз.
www.wkap.nl/journalhome.htm/0920-4741
doi: 10.1007/s11269-017-1664-z
View at Publisher
- (2014) *Water, Food and Energy Nexus Challenges; World Business Council for Sustainable Development; Geneva, Switzerland; World Business Council for Sustainable Development*
<https://www.wbcsd.org/Programs/Food-and-Nature/Water/Resources/Water-Food-and-Energy-Nexus-Challenges>
- (2014) *FAO's Global Water Information System: Area Equipped for Irrigation*. Цитировано 3 раз.
AQUASTAT Database, FAO, Rome, Italy
<http://www.fao.org/aquastat/en/>
- Folegatti, M.V., Pessoa, P.C.S., Paz, V.P.S. Avaliacao do desempenho de um Pivo Central de Grande Porte e Baixa Pressao (1998) *Sci. Agric.*, 55, pp. 119-127. Цитировано 9 раз.
<https://doi.org/10.1590/S0103-90161998000100019>
- Frequency Converters*. Цитировано 3 раз.
<https://www.usful.net/vfu/frequency-inverter/general-frequency-inverter.html?grid=EA9A906c-NM28UN-5-c989VZrB5c7m0wHtEAAyAIAEgK5ivD8uE>
- Phase 220V 100kW Frequency Converter 50Hz to 60Hz with AC-DC-AC Sine Wave Output
<https://bangzhao.en.made-in-china.com/product/avpxonBYULrri/China-3-Phase-220V-100kW-Frequency-Converter-50Hz-to-60Hz-with-AC-DC-AC-Sine-Wave-Output.html>
- Bernier, M.A., Bourret, B. Pumping energy and variable frequency drives (1999) *ASHRAE Journal*, 41 (12), pp. 37-40. Цитировано 97 раз.
- Moreno, M.A., Côrcoles, J.I., Tarjuelo, J.M., Ortega, J.F. Energy efficiency of pressurized irrigation networks managed on-demand and under a rotation schedule (2010) *Biosystems Engineering*, 107 (4), pp. 349-363. Цитировано 61 раз.
<http://www.elsevier.com/locate/issn/01676369/store/6/2/271/9/5/index.htm>
doi: 10.1016/j.biosystemseng.2010.09.009
View at Publisher
- King, B.A., Wall, R.W. Distributed instrumentation for optimum control of variable speed electric pumping plants with center pivots (2000) *Applied Engineering in Agriculture*, 16 (1), pp. 45-50. Цитировано 12 раз.
- Kranz, W.L., Irmak, S., Martin, D.L., Yonts, C.D. (2007) *Flow Control Devices for Center Pivot Irrigation Systems*, 888, pp. 1-3. Цитировано 2 раз.
Univ. Neb. Linc. Ext. Inst. Agric. Nat. Resour.
<https://extensionpublications.unl.edu/assets/pdf/p888.pdf>
- Planells Alandi, P., Carrion Pérez, P., Ortega Álvarez, J.F., Moreno Hidalgo, M.A., Tarjuelo Martín-Benito, J.M. Pumping efficiency and regulation for water-distribution networks (2005) *Journal of Irrigation and Drainage Engineering*, 131 (3), pp. 273-281. Цитировано 43 раз.
doi: 10.1061/(ASCE)0733-9437(2005)131:3(273)
View at Publisher
- Khadra, R., Moreno, M.A., Awada, H., Lamaddalena, N. Energy and Hydraulic Performance-Based Management of Large-Scale Pressurized Irrigation Systems (2016) *Water Resources Management*, 30 (10), pp. 3493-3506. Цитировано 19 раз.
www.wkap.nl/journalhome.htm/0920-4741
doi: 10.1007/s11269-016-1365-z
View at Publisher
- Baptista, V.B.S., Côrcoles, J.I., Colombo, A., Moreno, M.A. Feasibility of the use of variable speed drives in center pivot systems installed in plots with variable topography (Открытый доступ) (2019) *Water (Switzerland)*, 11 (10), art. no. 2922. Цитировано 9 раз.
https://res.mdpi.com/journal/water/water-11-02192/article_deploy/water-11-02192-v2.pdf
doi: 10.3390/w1102192
View at Publisher
- Fernández García, I., Moreno, M.A., Rodríguez Díaz, J.A. Optimum pumping station management for irrigation networks sectoring: Case of Bembezar MI (Spain) (2014) *Agricultural Water Management*, 144, pp. 150-158. Цитировано 42 раз.
www.elsevier.com/locate/issn/01676369/store/5/0/1/2/9/7
doi: 10.1016/j.agwat.2014.06.006
View at Publisher
- Babenko, D., Batsurovska, I., Dotsenko, N., Gorbenko, O., Andriushchenko, I., Kim, N. Application of Monitoring of the Informational and Educational Environment in the Engineering Education System (2019) *Proceedings of the International Conference on Modern Electrical and Energy Systems, MEES 2019*, art. no. 8896469, pp. 442-445. Цитировано 8 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8891873>
ISBN: 978-172812569-5
doi: 10.1109/MEES.2019.8896469
View at Publisher
- Hanson, B.R., Weigand, C., Orloff, S. Variable-frequency drives for electric irrigation pumping plants save energy (1996) *Calif. Agric.*, 50, pp. 36-39. Цитировано 5 раз.
- Lamaddalena, N., Khlija, S. Energy saving with variable speed pumps in on-demand irrigation systems (2012) *Irrigation Science*, 30 (2), pp. 157-166. Цитировано 42 раз.
doi: 10.1007/s00221-011-0271-7
View at Publisher
- Brar, D., Kranz, W.L., Lo, T., Irmak, S., Martin, D.L. Energy conservation using variable-frequency drives for center-pivot irrigation: Standard systems (2017) *Transactions of the ASABE*, 60 (1), pp. 95-106. Цитировано 12 раз.
<http://e601trn.asabe.org/az2ez.asp?ID=3&AID=47654&ConflD=120787&v=60&i=1&t=2&redirType=doi:10.13031/trans.11683>
View at Publisher
- Hassan, W., Kamran, F. A hybrid PV/utility powered irrigation water pumping system for rural agricultural areas (Открытый доступ) (2018) *Cogent Engineering*, 5 (1), pp. 1-15. Цитировано 17 раз.
<http://www.tandfonline.com/doi/abs/2018/08/01>
doi: 10.1080/23311916.2018.1466383
View at Publisher
- Al-Badi, A., Yousef, H., Al Mahmoudi, T., Al-Shammaki, M., Al-Abri, A., Al-Hinai, A. Sizing and modelling of photovoltaic water pumping system (2018) *International Journal of Sustainable Energy*, 37 (5), pp. 415-427. Цитировано 15 раз.
<http://www.tandfonline.com/doi/abs/2018/08/01>
doi: 10.1080/14786451.2016.1276906
View at Publisher
- Antonello, R., Carraro, M., Costabeber, A., Tinazzi, F., Zigliotto, M. Energy-efficient autonomous solar water-pumping system for permanent-magnet synchronous motors (Открытый доступ) (2017) *IEEE Transactions on Industrial Electronics*, 64 (1), art. no. 7524798, pp. 43-51. Цитировано 15 раз.
<http://ieeexplore.ieee.org/xpl/tocresult.jsp?punumber=5410131>
doi: 10.1109/TIE.2016.2595480
View at Publisher
- Narayana, V., Mishra, A.K., Singh, B. Development of low-cost PV array-fed SRM drive-based water pumping system utilising CSC converter (2017) *IET Power Electronics*, 10 (2), pp. 156-168. Цитировано 30 раз.
<http://scitation.aip.org/dbt/dbt.jsp?KEY=IPEEBO>
doi: 10.1049/iet-pel.2016.012
View at Publisher
- Abrihambaf, O., Faria, P., Gomes, L., Vale, Z. Agricultural irrigation scheduling for a crop management system considering water and energy use optimization (Открытый доступ) (2020) *Energy Reports*, 6, pp. 133-139. Цитировано 21 раз.
<http://www.journals.elsevier.com/energy-reports/>
doi: 10.1016/j.egyr.2019.08.031
View at Publisher
- Malik, W., Dechmi, F. DSSAT modeling for best irrigation management practices assessment under Mediterranean conditions (Открытый доступ) (2019) *Agricultural Water Management*, 216, pp. 27-43. Цитировано 39 раз.
<http://www.journals.elsevier.com/agricultural-water-management/>
doi: 10.1016/j.agwat.2019.01.017
View at Publisher
- Barbosa, B.D.S., Colombo, A., de Souza, J.G.N., da S. Baptista, V.B., de Araujo, A.C.S. Energy efficiency of a center pivot irrigation system (Открытый доступ) (2018) *Engenharia Agrícola*, 38 (2), pp. 284-292. Цитировано 7 раз.
<http://www.scielo.br/pdf/eaagri/v38n2/v38n2-284-292.pdf>
doi: 10.1590/1809-4430-eng-agric.v38n2p284-292/2018
View at Publisher
- What is the Green Tariff in Ukraine? <https://solarenergy.ua/uk/zeleeny-tarif/>
- Havrysh, V., Hruban, V., Sadovoy, O., Batsurovska, I., Fedorchuk, V., Yablunovskaya, K. Energy Saving Technologies for Automatical Move Irrigation Equipment (2020) *Proceedings of the 25th IEEE International Conference on Problems of Automated Electric Drive Theory and Practice, PAEP 2020*, art. no. 9240881. Цитировано 3 раз.
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=9240771>
ISBN: 978-172819935-1
doi: 10.1109/PAEP49887.2020.9240881
View at Publisher
- Kalinichenko, A., Havrysh, V. Feasibility study of biogas project development: Technology maturity, feedstock, and utilization pathway (2019) *Archives of Environmental Protection*, 45 (1), pp. 68-83. Цитировано 18 раз.
http://journals.pau.pl/Content/110304_959985.pdf
doi: 10.24425/aep.2019.126423
View at Publisher
- Kalinichenko, A., Havrysh, V., Perebynys, V. Sensitivity analysis in investment project of biogas plant (Открытый доступ) (2017) *Applied Ecology and Environmental Research*, 15 (4), pp. 969-985. Цитировано 14 раз.
http://ajournals.hu/pdf/11504_959985.pdf
doi: 10.15666/aer/1504_959985
View at Publisher
- Walker, Andy, Lockhart, E., Desai, J., Ardani, K., Klise, G., Lavrova, O., (...), Pochiraju, A. Model of Operation-and-Maintenance Costs for Photovoltaic Systems. Technical Report NREL/TP-5Coo-74840 (2020). Цитировано 26 раз.
June
<https://www.nrel.gov/docs/fy20osti/74840.pdf>

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