

ENERGYSAVING AND WATERTREATMENT

No. 1 (105)

2017, February

CONTENTS

POWER ENGINEERING.....	3
Aripov N.M., Mamadzhano A.B. Analysis of efficiency in the implementation variable frequency drives or hydraulic clutch on objects steam power plants.....	3
Demin Yu.K., Kartavtsev S.V. Energy and resource saving in the drying of compressed air in the compressor unit.....	8
WATER TREATMENT AND WATER TREATMENT EQUIPMENT.....	13
Sharapov V.I., Kudryavtseva E.V. The hydrodynamic parameters of operation of deaerators with natural gas.....	13
RESEARCH, DESIGN, CALCULATIONS.....	17
Ermolaev A.N. Research of thermal regime in the area over the high-temperature gas infrared heaters..	17
Lagutkin M.G., Tsurikova N.P., Pushnov A.S. Optimization of the design of the short layered packing of cooling towers.....	23
Karaeva Yu.V., Varlamova I.A. Efficiency hydraulic mixing in the digester with baffles.....	27
Gaitova T.B., Popov S.A., Spichak V.S., Spichak D.S. Calculation of axial electromagnetic force of the induction motor with seamanite-asymmetric rotor.....	33
Prokhorov V.B., Denishchuk D.A., Gorburov D.V. Non-catalytic sulfuric acid vapor condensing system for coal-fired boiler's exhaust gases deep heat recovery.....	37
LIFE SAFETY.....	41
Sheverdyaev O.N., Yavkina N.V. Recycling of plastics.....	41
ECONOMICS, COMPUTER SCIENCE AND MANAGEMENT.....	46
Oleinik N.S. Offers on increase in the energy efficiency of the enterprise.....	46
DISCUSSIONS, PROBLEMS, OPINIONS.....	50
Ochkov V.F. Preserving and development of thermal power plants or n-generation.....	50
Ostretsov I.N. Fukushima.....	62
PROFESSIONAL TRAINING.....	67
Marchenko E.M., Marchenko V.M. Problems of training of engineers for power industry in Russia.....	67
LITERARY PAGE.....	80

Editor-in-chief
E.M. MARCHENKO

**EDITORIAL
BOARD**

V.S. AGABABOV
R.A. AMERKHANOV
A.V. ANDRYUSHIN
Yu.V. BALABAN-IRMENIN
P. BALTRENAS
V.D. BUROV
A.V. VOLKOV
B.Kh. GAITOV
M.Kh.-G. IBRAGIMOV
V.I. KORMILITSYN
Yu.A. KUZMA-KICHTA
V.V. KULICHKHIN
B.M. LARIN
S.I. MAGID
M.E. MARCHENKO
E.E. NOVGORODSKII
V.F. OCHKOV
A.B. PERMYAKOV
V.I. RACHKOV
A.S. SEDLOV
V.P. SPIRIDONOV
B.G. TUVAL"BAEV
L.A. KHOMENOK
V.I. SHARAPOV
E.B. YURCHEVSKII

Founder:
LLC «ENIV»

*The magazine is issued in interests
and on money of followers.*

*The magazine is registered
State Committee*

*The Russian Federation on the press.
Certificate No. 016042
of April 30, 1997.*

*Certificate on a re-registration of
PI No. FS77-44018
of March 01, 2011.*

Subscription indexes

**42815 - United
catalogue "Press of Russia"**

Post address of Editorial Board:

**107241, Moscow,
P.O.Box 35, OOO "ENIV"
Phone +7-495-504-7503**

E-mail: eniv2013@gmail.com
info@energija.ru
www.energija.ru
www.enivpress.jimdo.com

Signed
14.02.2017
The 1200 copies

It is printed in Printing houses
Onebook.ru
LLC «Sam Poligrafist»
6 Protopopovskii per., Moscow