ISSN 1992-4658

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.

Founder: LLC «ENIV»

Subscription indexes
Π6414 - Russian Post
42815 - Ural-Press

SCIENTIFIC-TECHNICAL MAGAZINE Published since 1997

ENERGYSAVING AND WATERTREATMENT

No. 6 (128)

2020, December

CONTENTS

WATERTREATMENT AND WATER PURIFICATION	4
Jalilova A.M. New technology for water treatment for hot water supply systems	4
Germanova T.V., Menshikova A.A., Tretjakova P.A. A research on feed water quality evaluation and	
ion exchange process in the first stage of sodium-cationite filters	8
Driker B.N., Protazanov A.A., Tsirulnikova N.V. Multipurpose inhibitor for water consumption systems	13
ENERGYSAVING TECHNOLOGIES	18
Pavlov M.V., Karpov D.F. Determination method of thermal conductivity of liquid heat insulation	
coating on pipeline section	18
Klychev Sh.I., Bakhramov S.A., Kharchenko V.V., Panchenko V.A. Simulation of thermal losses of flat	
solar collectors	24
Rydalina N.V. Heat transfer in heat exchangers with porous inserts	32
RESEARCH, DESIGN, CALCULATIONS	39
Ovechkina O.V., Kolchanova E.N., Akulich R.V., Temirkaiaev D.T., Lysenko S.E., Isaenko E.I., Emel-	
yanova O.V. Results of pre-start steam-water-oxygen purification, passivation and conservation of boiler and turbine equipment at heat power plants of the country	39
Sultanov M.M., Ivanitskiy M.S., Kuryanova E.V. Development of approaches to assessing the resource and safety of TPP boiler installations based on reliability indicators	45
Anisimov P.N., Medyakov A.A., Ostashenkov A.P. Results of the study of the effect of utilization of	
thermal emissions from a gas turbine using generator gas from chips on the efficiency	50
NEWS, ISSUES, OPINIONS	55
Marchenko M.E., Sergeeva Iu.S. Overview of Dagestan hydroenergy	55
Grishin V.I. The eighth miracle of the world (a hundred years to GOELRO plan)	69
TO DEADEDS AND SUDSCRIBERS	0.0

Phone of Editorial Board:

+7-915-4213768

E-mail: mem462@yandex.ru Site: www.energija.ru

Signed 21.12.2020 200 copies

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

Contents 3